SERVICE MANUAL AA-2D CHASSIS

MODEL	DEST.	COMMANDER	CHASSIS NO.
KV-32S65	US	RM-Y167	SCC-S07K-A
KV-32S65	CND	RM-Y167	SCC-S08M-A
KV-35S65	US	RM-Y167	SCC-S07M-A
KV-35S65	CND	RM-Y167	SCC-S08N-A

KV-32S65

RM-Y167

MICROFILM

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

		KV-32S65	KV-35S65
Power requirements		120V,60Hz	120V,60Hz
Number of inputs/outputs			
	Video [1]	2	2
	S Video [2]	1	1
	Audio [3]	2	2
	Audio Out [4]	1	1
	Monitor Out	-	-
	TV out	-	-
	S-Link	Yes	Yes
Speaker output(W)		5W x 2	5W x 2
Power Consumption(W)			
	In use(Max)	180W	210W
	In standby	2W	3W
Dimensions(W/H/D)			
	(mm)	791 x 707 x 604.5mm	870 x 761 x 653mm
	(in)	31 x 27 13/16 x 23 3/4	34 1/4 x 30 x 25 5/8
Mass			
	(kg)	73kg	83kg
	(lbs)	160.5 lbs	183lbs

Television system
American TV standard

Channel coverage
VHF:2-13/UHF:14-69/CATV:1-125

Visible screen size
32-inch picture measured (KV-32S65)
35-inch picture measured (KV-35S65)

Antenna
75 ohm external terminal for VHF/UHF

Supplied Accessories
Remote commander (w/2 size AA (R6) batteries)

RM-Y167

Optional Accessory
Connecting Cables: VMC-810S/820S
VMC-720M,YC-15V/30V,RK-74A
TV-Stand: SU-32A3,SU-35A3
VHF/UHF Mixer: EAC-66

[1] 1 Vp-p 75 ohms unbalanced, sync negative
[2] Y: 1 Vp-p 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
[3] 500 mVrms (100% modulation), Impedance: 47 kilohms
[4] More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms at the maximum volume setting (fix)
Impedance: 50 kilohms

(●)® SRS (SOUND RETRIEVAL SYSTEM)

The (●) SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

The word 'SRS' and the SRS symbol (●) are registered trademarks of SRS Labs, Inc.

BBE and BBE symbol are trademarks of BBE Sound,Inc. and are licensed by BBE Sound, Inc. under USP 4638258 and USP 4482866.

Design and specifications are subject to change without notice.

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WARNINGS AND CAUTIONS

CAUTION!

AFTER REMOVING THE ANODE, SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNEIMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONTIONNEMENT SUSPECTE.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63Trd are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-l00 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

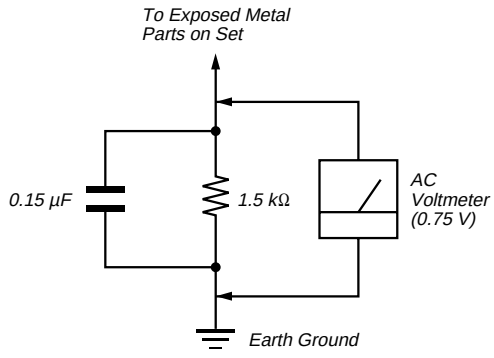


Fig. A. Using an AC voltmeter to check AC leakage.

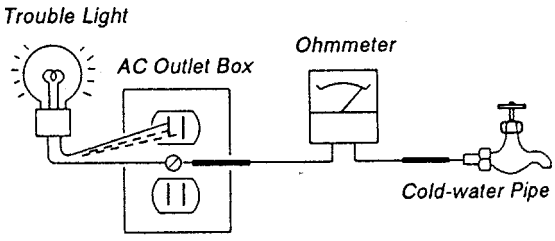


Fig B. Checking for earth ground.

SECTION 1 GENERAL

The instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers shown reflect those of the Operating Instruction Manual.

Welcome!

Thank you for purchasing the Sony Trinitron® Color TV. This manual is written for the models listed below. Before reading, check the model number located on the front of this manual or on the rear of your TV.

Model KV-35S45 is used for menu and illustration purposes. Differences in operation are indicated in the text; for example, "KV-35S45 only".

Model Number	Single tuner (VCR required for PIP)	Dual tuner (Ready to Use* PIP)	SRS	SURROUND	FAVORITE CHANNEL with Preview	AUTO VOLUME Control
KV-32S40				•		
KV-32S45	•			•		
KV-32S65		•		•	•	
KV-32V40			•			•
KV-32V65		•	•		•	•
KV-35S40				•		
KV-35S45	•			•		
KV-35S65		•		•	•	
KV-35V65		•	•		•	•

Precautions

Safety

- Operate the TV only with 120 V AC .
- The plug is designed, for safety purposes, to fit in the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified personnel before operating it further.
- If you will not be using the TV for several days, disconnect power by pulling the plug itself. Never pull on the cord.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS".

Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

Using This Manual

This manual is divided into four major sections. We recommend that you carefully review the contents of each section in the order presented to ensure that you fully understand the operation of your new TV.

1 Connecting and Installing the TV
This section guides you through your initial set up. It shows how to connect to your antenna or cable, and connect any accessories or components.

2 Basic Set Up
This section teaches you the basic skills needed to operate your new TV. It shows you how to operate special functions of the remote control.

3 Using your New TV
This section shows you how to begin using your new TV. It shows how to use the Easy Set Up Guide feature, and how to use your remote control.

4 Using your Menus
This section teaches you how to access on-screen menus and adjust your TV's settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the TV console.

Connecting and Installing the TV

Making Connections

Refer to the table below, it will direct you to the diagram suitable to the components you will be connecting.

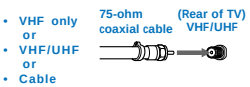
If you will be connecting	See page
Cable or antenna only	5
Cable and antenna (KV-32S65, 32V65, 35S65, 35V65 only)	5
Cable box	6
Cable box and cable to view scrambled channels (KV-32S65, 32V65, 35S65, 35V65 only)	6
VCR and cable or antenna	7
VCR and cable box	7
Direct Broadcast Satellite Receiver (DBS)	8
VCR and Direct Broadcast Satellite Receiver (DBS)	8
Digital Versatile Disc player (DVD)	9
Audio system	9
A/V receiver	10
Two VCR's for tape editing (KV-32V40, 32V65, 35V65 only)	10
Camcorder to view tapes	11
S-Link connections (KV-32S65, 32V65, 35S65, 35V65 only)	12

Cable or Antenna Connections

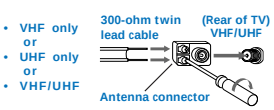
Connecting directly to cable or an antenna

The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**).

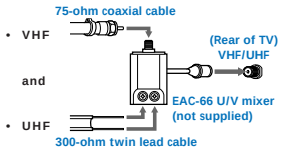
A



B



C

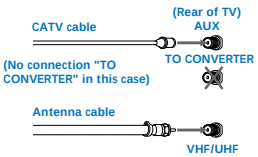


Cable and antenna

• **KV-32S65, 32V65, 35S65, 35V65 only**

If your cable provider does not feature local channels, you may find this set up convenient for viewing both local and cable channels.

Select cable or antenna mode by pressing ANT on the remote control. You will be able to alternate between the two input sources.



Note

- In order to receive channels with an antenna, you will need to turn your CABLE to OFF (see page 26) and perform the AUTO PROGRAM function.

Connecting and Installing the TV (continued)

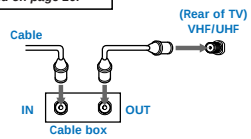
Cable Box Connections

Some pay cable TV systems use scrambled or encoded signals that require a cable box to view all channels.

Cable box

1 Connect the coaxial connector from your cable to the IN on your cable box.
2 Using a coaxial cable, connect OUT on your cable box to VHF/UHF on your TV.

If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature discussed on page 26.



Cable box and cable

• **KV-32S65, 32V65, 35S65, 35V65 only**

For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

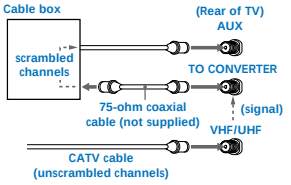
Notes

- Your Sony remote control can be programmed to operate your cable box. (see page 32)
- When using PIP, you cannot view the AUX input in the window picture.

Tip

Pressing ANT switches between these inputs.

If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input you should consider using the CHANNEL FIX feature discussed on page 26.



VCR Connections

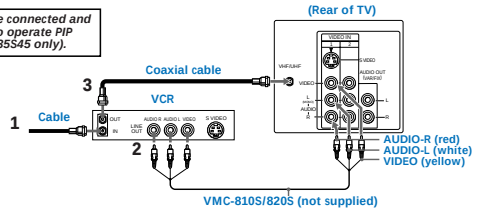
Disconnect all power sources before making any connections.

Connecting an antenna/cable TV system with a VCR

1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
2 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.*
3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your TV.

* If you are connecting a monaural VCR, connect only the single white audio output to the left input on your TV.

VCR must be connected and turned on to operate PIP (KV-32S45, 35S45 only).

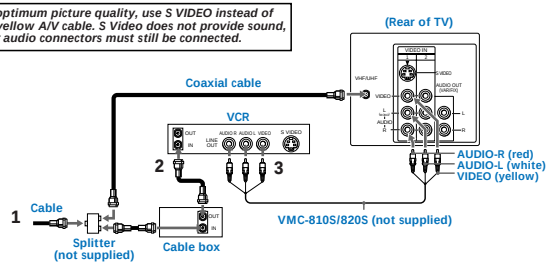


Connecting a VCR and TV with a cable box

You will need a splitter (not supplied) for the following connection.

1 Connect the single (input) jack of the splitter to your incoming cable connection. Connect the other two (output) jacks (using coaxial cable) to IN on your cable box and VHF/UHF on your TV.
2 Using a coaxial connector, connect OUT on your cable box to IN on your VCR.
3 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.



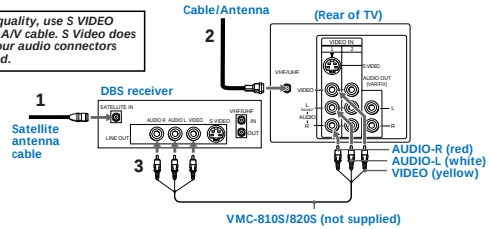
DBS Connections

Disconnect all power sources before making any connections.

Connecting a DBS (Direct Broadcast Satellite) receiver

1 Connect the cable from your satellite antenna to your DBS receiver.
2 Attach the coaxial connector from your cable or antenna to VHF/UHF on your TV.
3 Using A/V connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your TV.

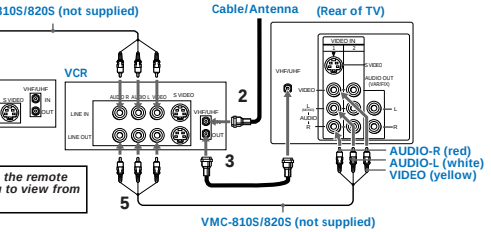
For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.



Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

1 Connect the cable from your satellite antenna to your DBS receiver.
2 Attach the coaxial connector from your cable or antenna to VHF/UHF IN on your VCR.
3 Using a coaxial connector, connect VHF/UHF OUT on your VCR to VHF/UHF on your TV.
4 Using A/V connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your VCR.
5 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

Pressing TV/VIDEO on the remote control will allow you to view from the DBS or VCR.



Additional Connections

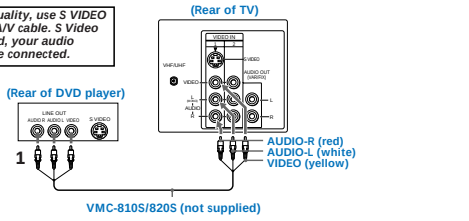
The following connections are for accessories that will enhance your viewing options.

Connecting a DVD Player

1 Using A/V connectors, connect LINE OUT on your DVD to VIDEO IN on your TV.

Disconnect all power sources before making any connections.

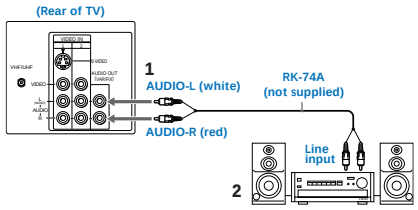
For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.



Connecting an audio system

For enhanced sound, connect your audio system to your TV.

1 Using AUDIO connectors, connect AUDIO OUT on your TV to one of the unused line inputs (e.g. TV, AUX, TAPE 2) on your stereo.
2 Set your stereo to the chosen line input. Refer to page 24 of this manual for additional audio setup instructions.



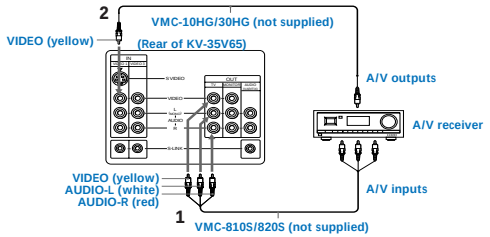
Connecting an A/V receiver

- **KV-32V65, 35V65 only**

1 Using A/V cables, connect TV OUT on your TV to TV IN on your A/V receiver.
2 Using a single video connector, connect Monitor OUT on your A/V receiver to VIDEO 1 IN on your TV.

Tip
You may want to use CHANNEL FIX to set your TV's input to the A/V receiver. See page 26.

Disconnect all power sources before making any connections.



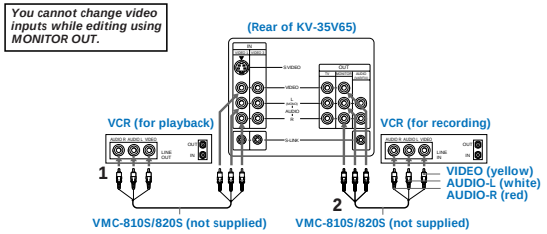
Connecting two VCRs

- **KV-32V40, 32V65, 35V65 only**

MONITOR OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

1 Connect the VCR intended for playback using the setup instructions on page 7 of this manual.
2 Using A/V connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to MONITOR AUDIO and VIDEO OUT on your TV.

You cannot change video inputs while editing using MONITOR OUT.



Connecting a camcorder

This connection is convenient for viewing a picture directly from your camcorder.

Using A/V connectors, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on your TV.

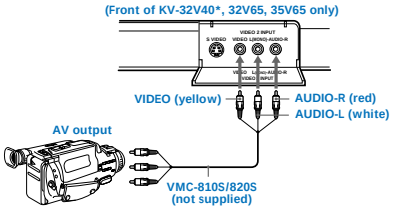
Connection can also be made directly to your A/V input located on the rear of your TV.

Note

- If you are connecting a monaural camcorder, connect only the single white audio output to the left input on your TV.

Disconnect all power sources before making any connections.

If you have an S VIDEO equipped camcorder, you can use an S Video cable for optimum picture quality.



*KV-32V40 does not have S VIDEO on the front panel.

S-Link connections

- **KV-32S65, 32V65, 35S65, 35V65 only**

S-Link is designed to allow your Sony components to "communicate".

Connecting S-Link to a VCR

S-Link will automatically power on the TV and switch to the correct video input when a tape is inserted in the VCR.

1 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

2 Using an S-Link connector (mono mini plug), connect S-LINK/CONTROL S-IN on your VCR to S-LINK on your TV.

Connecting S-Link to a DBS

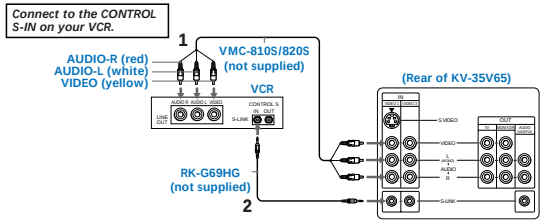
S-Link will automatically power on the TV and switch to the correct video input when you power on the DBS.

1 Using A/V connectors, connect AUDIO and VIDEO OUT on your DBS to AUDIO and VIDEO IN on your TV.

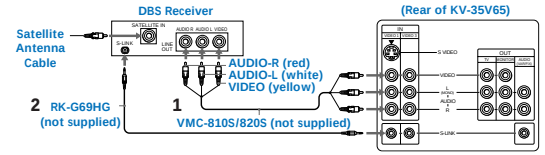
2 Using an S-Link connector (mono mini plug), connect S-LINK on your DBS to S-LINK on your TV.

Disconnect all power sources before making any connections.

Connect to the CONTROL S-IN on your VCR.



The S-Link connector must be in the same VIDEO-IN jacks as the A/V cables on your TV.



Programming the remote

You can use the supplied remote control to operate Sony or non-Sony video equipment.

1 Press CODE SET.

2 Press VTR/DVD (FUNCTION).

3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.

4 Press ENTER.

VCR code numbers

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305,338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314. 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To select a channel directly	Press the 0 – 9 buttons.
To change channels	Press CH +/–.
To record	Press ► and ● simultaneously.
To play	Press ►.
To stop	Press ■.
To fast forward	Press ▶▶.
To rewind the tape	Press ◀◀.
To pause	Press ❚❚. To resume normal playback, press again or press ►.
To scan	Press ▶▶ or ◀◀ during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Tips

- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
- When you remove the batteries, the code number may revert to the factory setting.
- The code numbers for Sony VCR's are assigned at the factory as follows:

VHS VCR	301 (preset code for the supplied remote control)
8 mm VCR	302
Beta, ED Beta VCRs	303

MDP (Multi Disc Player) code numbers

Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ❚❚. To resume normal playback, press again or press ►.
To scan	Press ▶▶ or ◀◀ during playback. To resume normal playback, press ►.
To search the chapter forward or backward	Press CH +/–.

Tip

If you will not be programming a DBS or cable box into the DBS/CABLE input, you can use it to program other video equipment (e.g. DVD, MDP, or second VCR). (see page 30)

DVD (Digital Versatile Disc) code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Operating a DVD player	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ❚❚. To resume normal playback, press again or press ►.
To scan	Press ▶▶ or ◀◀ during playback. To resume normal playback, press ►.
To search the chapter forward or backward	Press CH +/–.
To select chapters directly	0–9 + ENTER.
MENU	Press to display DVD menu.
To move cursor in menu	Use your arrow buttons ↑, ↓, ←, →.

Operating a Cable Box or DBS Receiver

Programming the remote

You can program the supplied remote control to operate a cable box or DBS receiver.

1 Press CODE SET.

2 Press DBS/CABLE (FUNCTION).

3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.

4 Press ENTER.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that were supplied with the equipment.

If the remote control doesn't work

- First, try repeating the setup procedures using the other codes listed for your equipment.

Tips

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's supplied remote control.
- Whenever you remove the batteries the code numbers may revert to the factory setting.

Cable box code numbers

Manufacturer	Code
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

DBS receiver code numbers

Manufacturer	Code
Sony	801 (preset code for remote control)
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

Troubleshooting

Consult the table below; it suggests solutions to specific problems.

Problem	What it could be	What you can do
Cannot operate single tuner PIP (KV-32S45, 35S45)	• VCR may not be connected to your TV properly. • VCR may not be turned on. • The remote control may not be programmed to operate the VCR.	• Ensure that you have set your VCR correctly. (see page 7) • Program your remote control to operate the VCR. (see page 30)
A red light keeps flashing on the TV for more than a few seconds	• Your TV may need service.	• Call your local Sony service center.
TV makes a noise when turned on	• This is a normal function of your TV.	
Screen is not lit and there is no sound	• Power cord may not be plugged in. • Batteries may not have been placed with the correct polarity. • TV/VIDEO setting may be incorrect.	• Press TV/VIDEO until you receive a channel.
Poor or no picture (screen lit), good sound	• VIDEO menu settings may not be adjusted correctly. • Antenna/cable connections may be faulty. • VIDEO LABEL inputs may be set to WEB. (This label darkens the screen for ideal WebTV viewing)	• Readjust your VIDEO menu settings.(see page 22) • Check your VIDEO LABEL settings. (see page 28)
Good picture, no sound	• Sound may be set to MUTING. • Your TV may be set to SAP. • Speaker may not be set correctly.	• Press MUTE. • Check the MTS setting in the AUDIO menu. (see page 23) • Check your SPEAKER settings. (see page 23)
No color	• Color settings may not be adjusted correctly.	• Adjust the COLOR settings in the VIDEO menu. (see page 22)

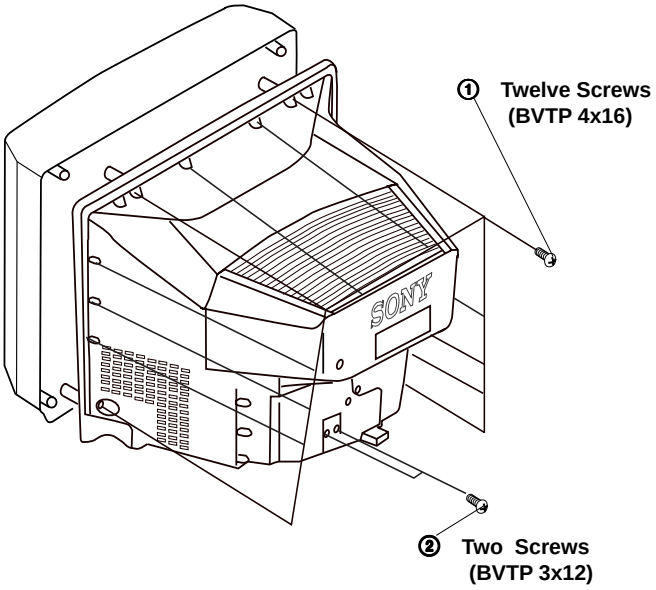
Problem	What it could be	What you can do
Only snow and noise appear on the screen	• CABLE may not be set correctly in the SET UP menu. • Antenna/cable connections may not be correct. • TV may be set to AUX mode.	• Ensure that you have selected the correct CABLE mode in the SET UP menu. (see page 26) • Press ANT on your remote control to change the input mode. (see page 16)
Cannot receive upper channels (UHF) when using an antenna	• CABLE setting may not be correct in the SET UP menu.	• Ensure that CABLE is set to OFF in the SET UP menu. (see page 26) • Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see page 26)
Cannot receive any channels when using cable	• CABLE setting may not be set correctly in the SET UP menu.	• Ensure that CABLE is set to ON in the SET UP menu. (see page 26) • Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see page 26)
Cannot gain enough volume when using a cable box	• Volume may not be adjusted on your cable box.	• Press TV (FUNCTION) and adjust the TV's volume.
TV is fixed to one channel	• CHANNEL FIX settings may not be correct.	• Check your CHANNEL FIX settings. (see page 26)

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Direct Response Center at 1-800-222-SONY (7669). (U.S. residents only)

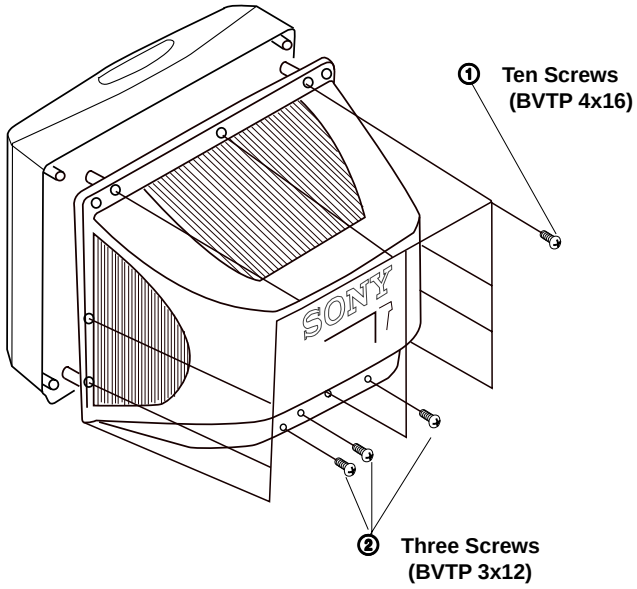
SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

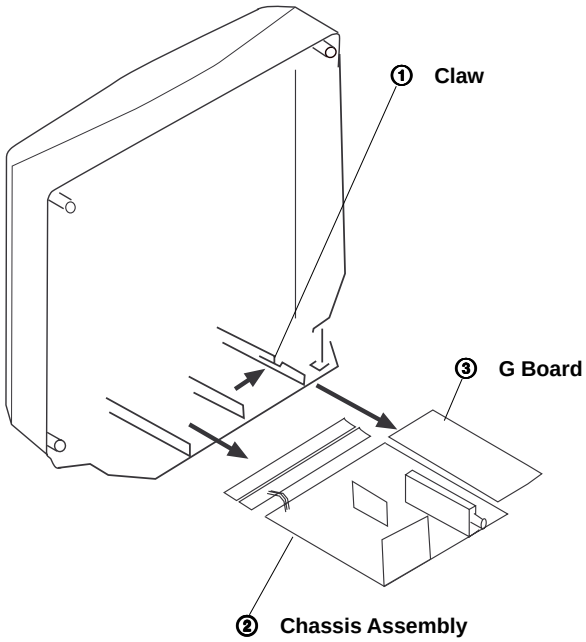
(KV-32S65)



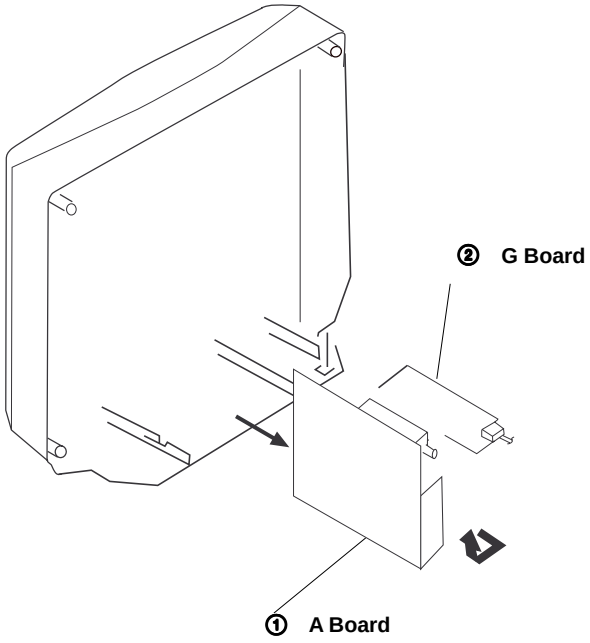
(KV-35S65)



2-2. CHASSIS ASSEMBLY REMOVAL



2-3. SERVICE POSITION



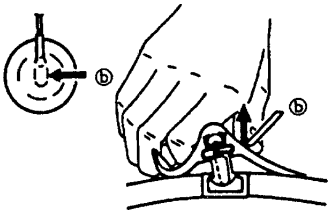
ANODE-CAP REMOVAL

WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electrical shock, discharge CRT before attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

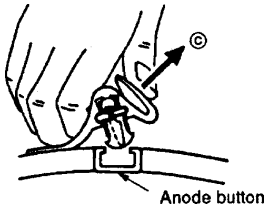
NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield or carbon painted on the CRT.

REMOVAL PROCEDURES

① Turn up one side of the rubber cap in the direction indicated by arrow ⓐ.



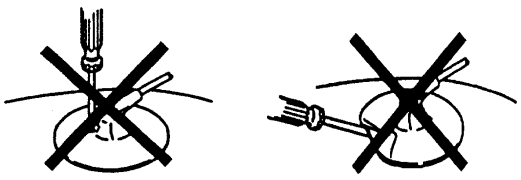
② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.



③ When one side of the rubber cap separates from the anode button, the anode-cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

HOW TO HANDLE AN ANODE-CAP

① Do not use sharp objects which may cause damage to the surface of the anode-cap.
② Do not squeeze the rubber covering too hard to avoid damaging the anode-cap. A material fitting called a shatter-hook terminal is built into the rubber.
③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.

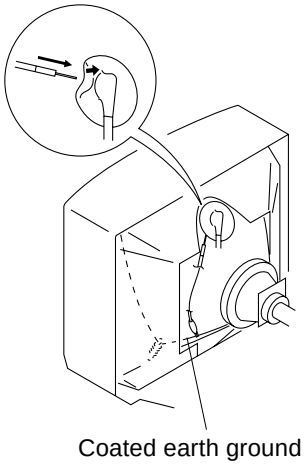


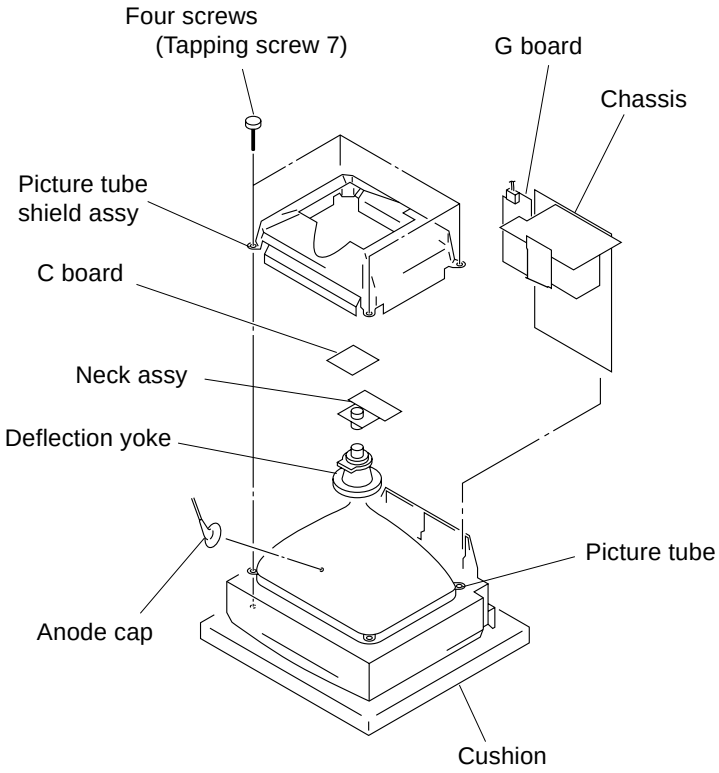
2-4-1. PICTURE TUBE REMOVAL (KV-32S65)

WARNING -- Before removing anode cap:

High voltage remains in the CRT even after the power is disconnected.

To avoid electrical shock, discharge CRT before attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.



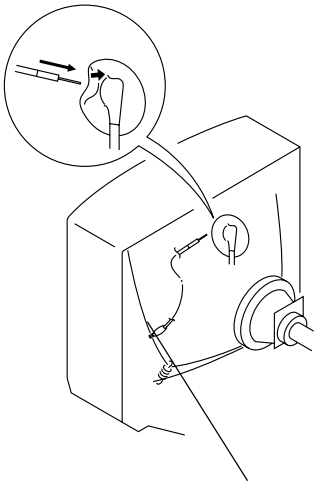


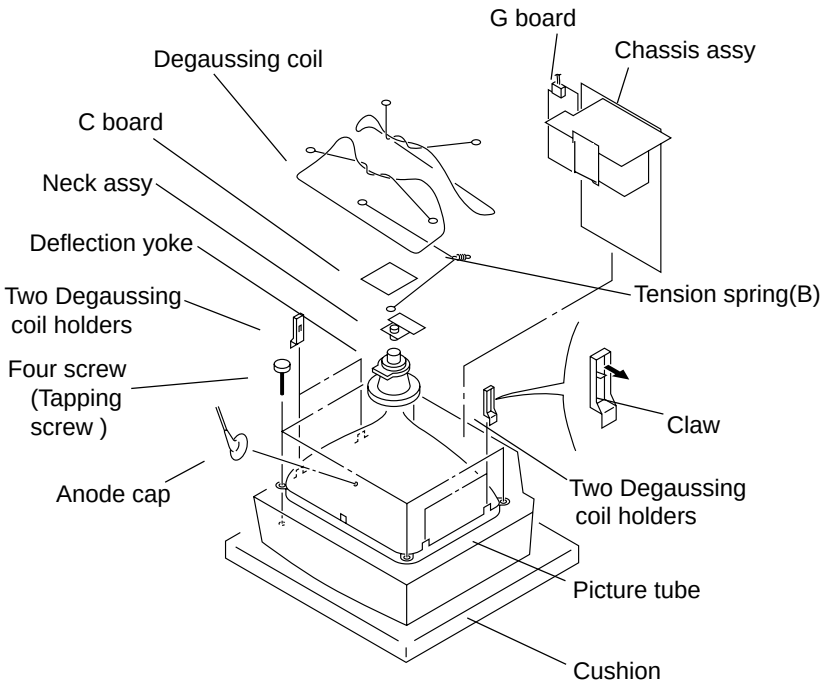
2-4-2. PICTURE TUBE REMOVAL (KV-35S65)

WARNING -- Before removing anode cap:

High voltage remains in the CRT even after the power is disconnected.

To avoid electrical shock, discharge CRT before attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.





SECTION 3
SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

PICTURE control ..... normal

BRIGHTNESS control ..... normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)/White Balance

Note: Test Equipment Required

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

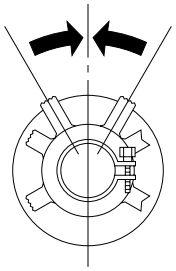
3-1. BEAM LANDING

Preparation:

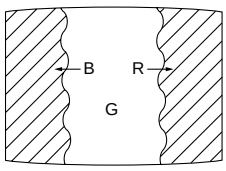
- Input a white pattern signal.
- Face the picture tube in a East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use the hand degausser because it magnetizes the CRT .

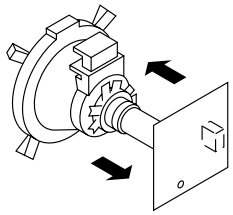
1. Input white pattern from pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



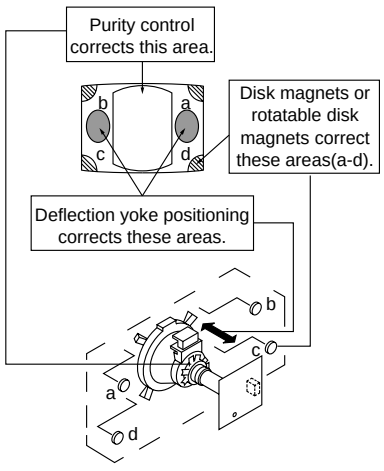
3. Input green pattern from pattern generator.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.



6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets.



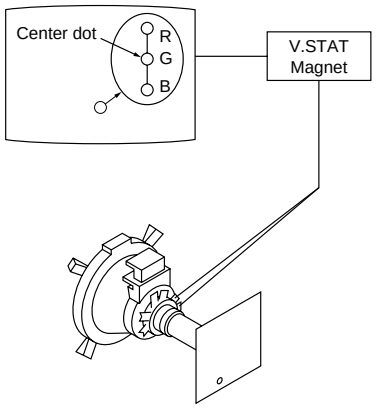
3-2. CONVERGENCE

Preparation:

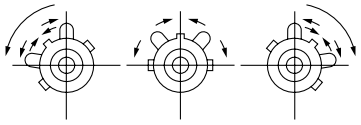
- Before starting, perform FOCUS, V. LIN and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Input dot pattern.

(1) Vertical and Horizontal Static Convergence

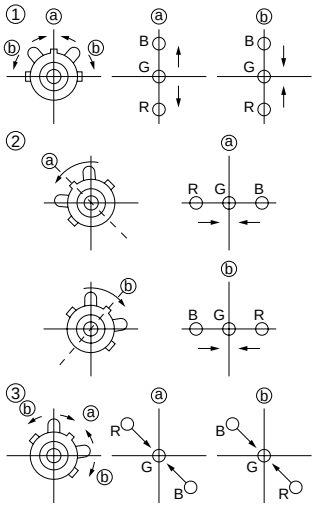
1. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)



Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



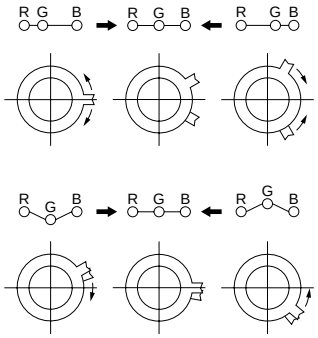
2. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green, and blue dots move as shown below:



Operation of BMC (Hexapole) Magnet

The respective dot positions resulting from moving each magnet interact, so perform adjustment while tracking.

Use the VSTAT tabs to adjust the red, green, and blue dots so they line up at the center of the screen (move the dots in a horizontal direction.)

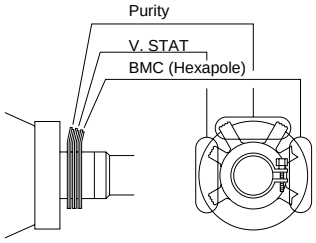


Y Separation Axis Correction Magnet Adjustment

1. Input cross-hatch pattern, adjust PICTURE to minimum and BRIGHTNESS to normal.

2. Adjust the deflection yoke upright so it touches the CRT.

3. Adjust so that the Y separation axis correction magnet on the neck assembly is symmetrical from top to bottom (open state).

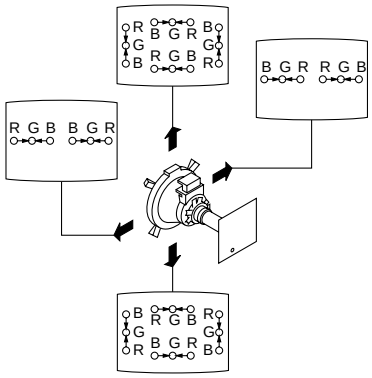


4. Return the deflection yoke to its original position.

(2) Dynamic Convergence Adjustment

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

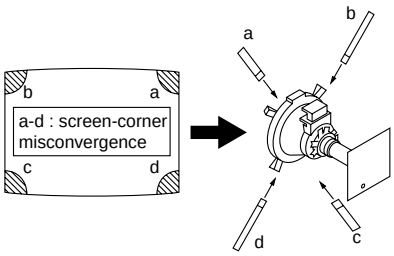
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below:



4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

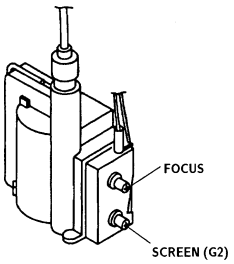
(3) Screen-corner Convergence

Affix a permalloy assembly corresponding to the misconverged areas:



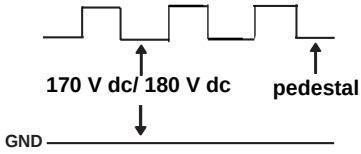
3-3. FOCUS

Adjust FOCUS control for best picture.



3-4. SCREEN (G2)

1. Input dot pattern from the pattern generator.
2. Set the PICTURE and BRIGHT controls at normal.
3. Adjust S BRT, G CUT, B CUT in service mode with an oscilloscope so that voltages on the red, green, and blue cathodes are 170Vdc for 35" and 180Vdc for 32".
4. Observe the screen and adjust SCREEN (G2) VR to obtain the faintly visible background of dot signal.



3-5. WHITE BALANCE ADJUSTMENTS

NO.	Disp.	Item	Avg/32"	Avg/35"
16	GDRV	Green Drive	33	45
17	BDRV	Blue Drive	33	45
18	GCUT	Green Cut-off	3	6
19	BCUT	Blue Cut-off	2	6
23	SBRT	Sub Bright	14	10

1. Input an entire white signal.
2. Set to Service adjustment Mode.
3. Set DCOL to "0"
4. Set the PICTURE and BRIGHT to minimum.
5. Adjust with SBRT if necessary.
6. Select GCUT and BCUT with 1 and 4 .
7. Adjust with 3 and 6 for the best white balance.
8. Set the PICTURE and BRIGHT to maximum.
9. Select GDRV and BDRV with 1 and 4 .
10. Adjust with 3 and 6 for the best white balance.
11. Reset DCOL to "1".
12. Write into the memory by pressing MUTING then ENTER **.

SECTION 4
SAFETY RELATED ADJUSTMENTS

⧓ R530, R531 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

Always perform the following adjustments when replacing the following components marked with a ◪ mark on the schematic diagram:

A BOARD:	IC351, IC501, D519, D520, D521, C531, C532, R387, R529, R530, R531, R532, R533, R550, T503
G BOARD:	IC643, R661

Step 1 Preparation before Confirmation

Turn the POWER switch ON.

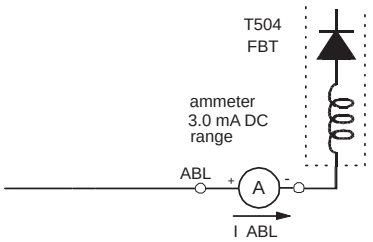
Input a white signal and set the PICTURE and BRIGHT controls to maximum.

Confirm that the voltage at the check terminal of TP85 is more than 18.0 V DC when the set is operating normally.
At AC input: 120.0 ± 2.0 VAC

Step 2

Input a white signal and verify that I ABL is within the specified range: 2160 ± 100 µA.

At AC input: 120.0 ± 2.0 VAC



Step 3

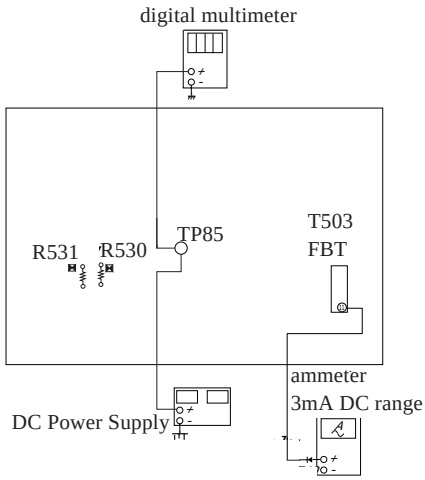
Record the voltage between TP85 and ground.

Step 4

Using an external DC power supply, apply voltage between TP85 and ground.

Increase the voltage gradually and confirm that the holdown works (raster disappears) at lower than the voltage recorded in Step 3.

Lower than 22.05 V DC
At AC input: 120.0 ± 2.0 VAC



A BOARD - CONDUCTOR SIDE

Step 5

Confirm that a voltage of more than 18.0 V DC appears between TP85 and ground.

At AC input: 120.0 ± 2.0 VAC

B+ VOLTAGE CONFIRMATION AND ADJUSTMENT

Always perform the following adjustments when replacing the following components marked with ◪ on the schematic diagram:

G BOARD: IC643, R661

1) Using Variac, apply AC input voltage: 130 ± 2.0 VAC
2) Input a monoscope signal.
3) Set the PICTURE control and the BRIGHT control to initial reset value.
4) Confirm the voltage of G BOARD CN641 between pin ① to ground is less than 135.5 ± 1.0 V DC.
5) If step 4 is not satisfied, replace the R661and repeat the above steps.

SECTION 5
CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use Remote Commander (RM-Y167) to perform the following circuit adjustments:

NOTE : Test Equipment Required:

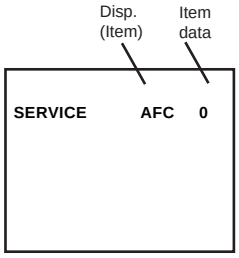
1. Pattern Generator
2. Frequency Counter
3. Digital Multimeter
4. Audio OSC

(1) Method of Setting the Service Adjustment Mode

SERVICE MODE PROCEDURE

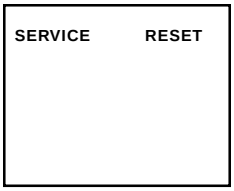
1. Standby mode. (Power off)
2. DISPLAY → 5 → VOL (+) → POWER on the Remote Commander.
   (Press each button within a second.)

SERVICE ADJUSTMENT MODE IN



3. The CRT displays the item being adjusted.
4. Press 1 or 4 on the Remote Commander to select the item.
5. Press 3 or 6 on the Remote Commander to change the data.
6. Press MUTING then ENTER to write into memory**.

SERVICE ADJUSTMENT MODE MEMORY

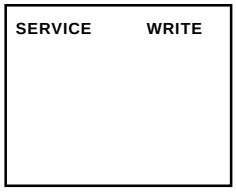


MUTING Green

↓

ENTER Red

7. Press 8 then ENTER on the Remote Commander to initialize.



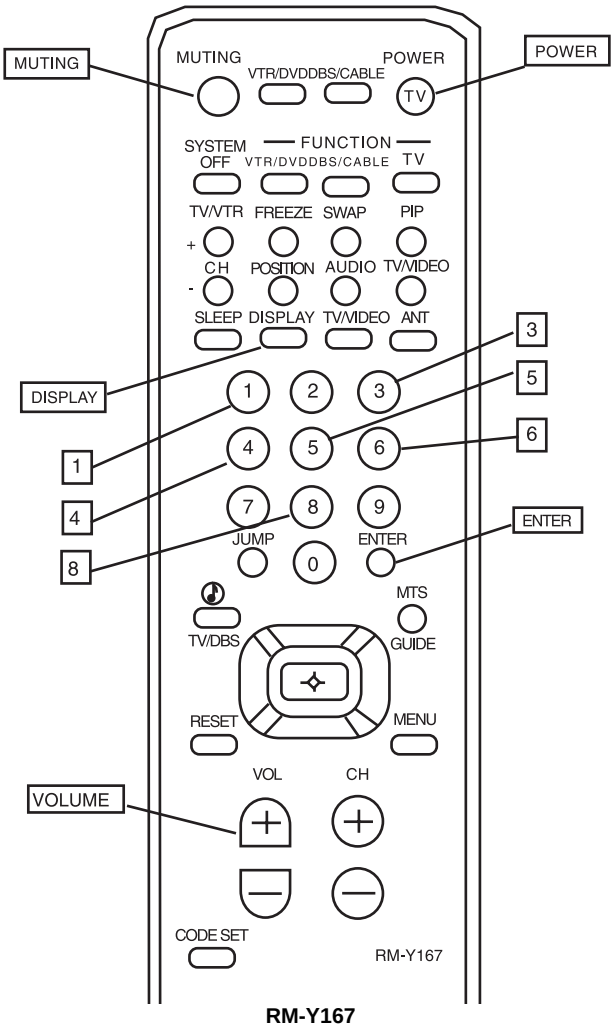
Carry out step 7 when adjusting IDs 0 to 4 and when replacing and adjusting IC002.

8. Turn set off and on to exit. * CAUTION: Wait at least 10 seconds before turning off set.

(2) Memory Write Confirmation Method

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again to confirm they were adjusted.

(3) Adjust Buttons and Indicator



RM-Y167

**WARNING: Do NOT turn off the power or AC immediately after pressing MUTING then ENTER. Wait at least 10 seconds.

(4) Service Data

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data	Average Data 32"	Average Data 35"	Comments
		VP CXA2095S						
1	VPOS	V-Position	0-63	*Adj*	**20**	23	33	0:Down, 63:Up
2	VSIZ	V-Size	0-63	*Adj*	**20**	27	52	0:Min, 63:Max
3	VCOM	V-Compensation	0-3	**Fix**	**1**	1		0:Min, 3:Max
4	VLIN	V-Linearity	0-15	*Adj*	**7**	9		0:Min, 15:Max
5	VSCO	S-Correction	0-15	*Adj*	**7**	6	9	0:Min, 15:Max
6	HPOS	H-Position	0-15	*Adj*	**7**	11	10	0:Right, 15:Left
7	HSIZ	H-Size	0-63	*Adj*	**20**	23	39	0:Min, 63:Max
8	PAMP	Pin Compensation	0-63	*Adj*	**31**	27	19	0:Min, 63:Max
9	UPIN	Upper Corner Pin	0-15	*Adj*	**7**	4	7	0:Min, 15:Max
10	LPIN	Lower Corner Pin	0-15	*Adj*	**7**	6	10	0:Min, 15:Max
11	PPHA	Pin Phase	0-15	*Adj*	**7**	4	5	0:Min(small picture), 15:Max
12	AFC	AFC	0-3	**Fix**	**2**	2		0:Freerun, 1:Min, 3:Max
13	VBOW	AFC Bow	0-15	*Adj*	**7**	6	5	0:Right, 15:Left
14	VANG	AFC Angle	0-15	*Adj*	**7**	6	4	0:Right, 15:Left
15	REF	Reference Line	0-3	**Fix**	**2**	2		0:22H(Rch), 3:16H(Rch)
16	GDRV	Green Drive	0-63	*Adj*	**31**	22	35	0:Min, 63:Max
17	BDRV	Blue Drive	0-63	*Adj*	**31**	30	26	0:Min, 63:Max
18	GCUT	Green Cutoff	0-15	*Adj*	**7**	5	8	0:Min, 15:Max
19	BCUT	Blue Cutoff	0-15	*Adj*	**7**	7	6	0:Min, 15:Max
20	SCON	Sub Contrast	0-15	*Adj*	**7**	10	8	0:Min, 15:Max
21	SHUE	Sub Hue (RF only)	0-15	*Adj*	**7**	7 (flat-1)	8 (flat-1)	0:+10deg, 15:-10deg
22	1SHU	Sub Hue (composite & S-video)	0-15	*Adj*	**7**	7	7	0:+10deg, 15:-10deg
23	SCOL	Sub Color (RF only)	0-15	*Adj*	**7**	11 (flat+2)	9 (flat+2)	0:Min, 15:Max
24	1SCO	Sub Color (composite & S-video)	0-15	*Adj*	**7**	14	13	0:Min, 15:Max
25	SBRT	Sub Brightness	0-63	*Adj*	**31**	26		0:Min, 63:Max
26	SSHP	Sub Sharpness (RF & Composite video)	0-15	**Fix by model**	**7**	8	8	0:Min, 15:Max
27	1SSP	Sub Sharpness (S-video only)	0-15	**Fix by model**	**7**	10	10	0:Min, 15:Max
28	GMMA	Gamma Correction	0-3	**Fix by model**	**1**	0	0	0:Off, 1:Min, 3:Max
29	CDM2	Countdown Mode 2	0-1	**Fix**	**0**	0		0: Normal 1: High Speed Countdown Response
30	EYSW	External Y Switch	0-1	**Fix**	**0**	0		0: Normal 1: EYin disabled
31	DPIX	Dynamic Picture	0,1	**Fix**	**1**	1		0:Off, 1:On
32	Y-DC	DC Transmission Ratio	0,1	**Fix**	**1**	1		0:100%, 1:82%
33	ABLM	ABL Mode	0,1	**Fix**	**1**	1		0:PictureABL, 1:Picture/BrightnessABL
34	AXIS	Color Demodulation Axis	0,1	**Fix**	**1**	1		0:Japan, 1:US
35	NOTC	Chroma Trap Filter	0,1	**Fix**	**0**	0		0:Off, 1:On
36	CROM	Chroma Trap Adjust	0-15	**Fix**	**7**	7		0:+300kHz, 1:-300kHz
37	TOT	TOT Filter (RF only)	0,1	**Fix**	**1**	1		0:Off, 1:On
38	1TOT	TOT Filter (Composite & S-video)	0,1	**Fix**	**1**	0		0:Off, 1:On
39	PREL	Pre/Overshoot Ratio (RF & Composite)	0-3	**Fix by model**	**3**	1		0: 2:1, 3: 5:1
40	1PRE	Pre/Overshoot Ratio (S-video only)	0-3	**Fix by model**	**3**	3		0: 2:1, 3: 5:1
41	SHPF	Sharpness fo (RF & Composite)	0-3	**Fix by model**	**2**	1		0:2.5MHz, 3:4.0MHz
42	1SPF	Sharpness fo (S-video only)	0-3	**Fix by model**	**2**	3		0:2.5MHz, 3:4.0MHz
43	RON	Red Off	0,1	**Fix**	**1**	1		0:Off, 1:On
44	GON	Green Off	0,1	**Fix**	**1**	1		0:Off, 1:On
45	BON	Blue Off	0,1	**Fix**	**1**	1		0:Off, 1:On
46	DCOL	Dynamic Color	0,1	**Fix**	**0**	1 (adjusts @ 0, but shipped as 1)		0:Off, 1:On
47	CDMD	V Countdown Mode	0,1	**Fix**	**0**	0		0:Auto, 1:Fix
48	HBSW	H Blanking Switch	0,1	**Fix**	**0**	0		0:Off, 1:On
49	LBLK	Left Blanking	0-15	**Fix**	**0**	7		0:Min, 15:Max
50	RBLK	Right Blanking	0-15	**Fix**	**0**	7		0:Min, 15:Max
		AP CXA2021						
51	SVOL	Sub Volume	0-15	**Fix**	**0**	6		0:-0 Volume steps, 15:-15 Volume steps
52	SBAL	Sub Balance	0-15	*Adj*	**7**	7		0: +Right, 15:+Left
53	SBAS	Sub Bass	0-15	**Fix by model**	**7**	8	8	0:-7 Steps, 15: +8 steps
54	STRE	Sub Treble	0-15	**Fix by model**	**7**	10	10	0:-7 Steps, 15: +8 steps
		MM1311/1313						
55	AUSW	Audio Att Sw	0,1	**Fix**	**1**	1		0:-6dB, 1:0dB (Only for VIDEO input)

Service Data (cont.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data	Average Data 32"	Average Data 35"	Comments
		PI SDA9288						
56	PYSD	Select Delay	0-15	Fix by P-bd	3	3		0:Right, 15:Left
57	PIPH	PIP H-position	0-127	Fix	78	78		0:Right, 127:Left
58	PIPV	PIP V-position	0-63	Fix	18	18		0:Up, 63:Down
59	PYDL	PIP Y-delay	0-7	Fix	0	0		0:Right, 7:Left
60	PHDL	H-pulse delay	0-15	Fix by P-bd	3	0		0:Right, 15:Left
61	PMVD	Main V-pulse delay	0-31	Fix	16	16		7-21: Available (1-6/22-31 Not Avail)
62	PIVD	Inset V-pulse delay	0-31	Fix	22	22		16-28 Available (1-15/29-31 Not Avail)
63	PCON	Inset Contrast	0-15	Fix	7	7		0:Min, 15:Max
64	FRMY	Frame Y	0-15	Fix	7	7		0:Dark, 15:Bright
65	CHRI	Input Polarity	0,1	Fix by P-bd	1	1		0:+(B-Y)+(R-Y), 1:-(B-Y)-(R-Y)
66	CHRO	Output Polarity	0,1	Fix	1	1		0:+(B-Y)+(R-Y), 1:-(B-Y)-(R-Y)
67	IPER	Inset Pedestal R-Y	0-15	Fix	0	0		0:Center, 7:Max, 8:Min
68	IPEB	Inset Pedestal B-Y	0-15	Fix	0	0		0:Center, 7:Max, 8:Min
69	PCPS	CLPS Bit Control	0,1	Fix	0	0		0:Depend on HSIDEL, 1:Not depend
70	PCPF	CLPFIX Bit Control	0,1	Fix	0	0		0: 3Clamp line, 1: 2Clamp line
71	PSEL	SELDOWN Bit Control	0,1	Fix by P-bd	1	1		0:Open out, 1:TTL out
72	PPLL	PLL Filter Bits	0-3	Fix	0	0		Fixed value only
73	PVNR	VSPISQ VSP NR	0-1	Fix	0	1		SDA9288 IC bypass use 1
		IC CXA2019						
74	ISCO	CDec Sub Contrast	0-15	Fix	7	15		PiP sub contrast
75	ISHP	CDec Sharpness	0-15	Fix	7	8		PiP sharpness
76	ISCL	CDec Sub Color	0-15	Fix	7	9		PiP sub color
77	ISHU	CDec Sub Hue	0-15	Fix	7	6		PiP sub hue
78	ITOT	CDec TOT on	0,1	Fix	0	1		PiP TOT 0:Off, 1:On
79	IAFC	CDec AFC	0-3	Fix	2	2		0:Max, 2:Min, 3:Freerun
80	ICD2	CDec Countdown Mode2	0,1	Fix	0	0		0:Standard, 1:Fast
81	IYDR	CDec Y drive	0-31	Fix	15	7		PiP Y-drive gain
82	IVPE	CDec V pedestal	0-15	Fix	7	6		PiP V-ped DC
83	IUPE	CDec U pedestal	0-15	Fix	7	6		PiP U-ped DC
84	IRVP	CDec RV pedestal	0-15	Fix	7	6		PiP V-ped DC (re-input)
85	IRUP	CDec RU pedestal	0-15	Fix	7	6		PiP U-ped DC (re-input)
86	IDCT	CDec DC transfer	0-7	Fix	2	0		PiP DC transfer 0:Max, 7:Min
87	IRYD	CDec RY drive	0-31	Fix	15	20		PiP RY Drive (re-input)
88	IABO	CDec ABL off	0,1	Fix	1	1		PiP ABL (RY-OUT) 0:On, 1:Off
89	IPRE	CDec Pre/Over shoot	0-3	Fix	3	3		PiP Pre/over shoot 0: 1:1, 1: 4:1
90	IRUD	CDec RU Drive	0-31	Fix	15	20		PiP RU-gain out 0:-6dB, 31:+3.3bD
91	IABL	CDec ABL	0,1	Fix	1	1		PiP ABL gain 0:Std, 1:Min
92	IABC	CDec ABL Cent	0-3	Fix	1	1		PiP ABL Center 0:Min, 1:Max
93	IRVD	CDec RV drive	0-31	Fix	15	17		PiP RY Drive (re-input)
94	IDLY	CDec Delay	0-3	Fix	0	0		PiP Y-delay 0:0ns, 1:60ns, 2:120ns, 3:180ns
95	ISCR	CDec SCP BGR	0-3	Fix	0	0		PiP SCP riseup phase 0:+0.4us, 1:cent, 2:-0.8us
96	ISCF	CDec SCP BGF	0-3	Fix	0	0		PiP SCP falldown phase 0:+0.4us, 1:cent, 2:-0.8us
		CC CXP8584a-011s						
97	CRIL	CC CRI count low	0-15	Fix	2	2		7 Clock Run-In Lower Limit (field 1)
98	CFLD	CC Caption Fixed Field Count		Fix	5	5		Fixed value only
99	CCDI	CC CCD int	0-7	Fix	3	3		Fixed value only
100	CRIP	CC CRI & polarity	0-7	Fix	4	4		Fixed value only
101	CRIT	CC CRI time constant	0-3	Fix	1	1		Fixed value only
102	CSB1	CC Sync Slice Bias 1	0-3	Fix	3	3		Fixed value only
103	CSB2	CC Synce Slice Bias 2	0-7	Fix	4	4		Fixed value only
104	CREP	CC CRI signal end position	0-255	Fix	142	142		Fixed value only
105	CDSD	CC Data start delay	0-31	Fix	8	8		Fixed value only
106	CCDS	CC Caption data threshold	0-31	Fix	9	9		Fixed value only
107	CHMK	CC P8_HMASK	0-63	Fix	42	42		Hmask
108	CHSY	CC P8_HSYC	0-255	Fix	136	136		Hsyc
109	DISP	TV OSD H Position	0-63	*Adj*	1	23		0:Off, 1:Left, 63: Right
110	RTCO	Rotation Coil	0-63	Fix	32	32		Fixed value only

Service Data (cont.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data	Average Data 32"	Average Data 35"	Comments
		ID MAP						
111	ID-0	ID-0 (Language/Color Systems)	0-255	Fix by model	89	refer to NVM ID Chart		See ID map
112	ID-1	ID-1 (Input/Output Conifguration)	0-255	Fix by model	55			See ID map
113	ID-2	ID-2 (Audio)	0-255	Fix by model	175			See ID map
114	ID-3	ID-3 (OSD/Timer/V-chip/Ch Fix)	0-255	Fix by model	0			See ID map
115	ID-4	ID-4 (CC/Spot Killer/etc)	0-255	Fix by model	155			See ID map
116	ID-5	ID-5 (V-series Features/etc)	0-255	Fix by model	141			See ID map
117	ID-6	ID-6 (PiP/Ant Sw related)	0-255	Fix by model	6			See ID map
118	ID-7	ID-7 (Special Models/etc)	0-255	Fix by model	0			See ID map

SERVICE IDO 25

Note: Items 1-118 show adjustment order

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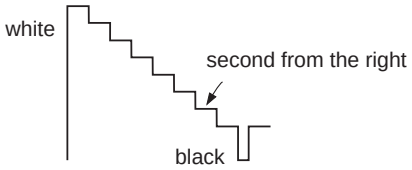
(5) Feature ID Map

	KV-	DESTINATION	ID-0	ID-1	ID-2	ID-3	ID-4	ID-5	ID-6	ID-7
1	**32S65**	(US/CND)	89	21	31	10	27	133	6	0
2	**35S65**	(US/CND)	89	21	31	10	155	133	6	0

SUB BRIGHT ADJUSTMENT (SBRT)

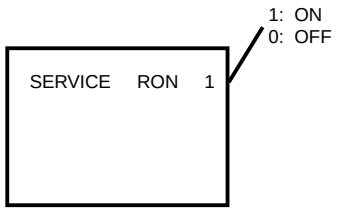
1. Set to Service adjustment Mode.
2. Input a gray scale pattern signal.
3. Set the PICTURE to minimum, and BRIGHT to normal.
4. Select SBRT with 1 and 4 .
5. Adjust SUB BRIGHT level with 3 and 6 so that the stripe second from the right is faintly visible.
6. Write into the memory by pressing MUTING then ENTER**.



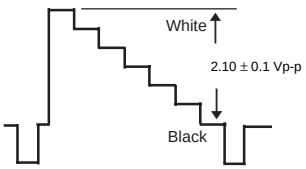
SUB CONTRAST ADJUSTMENT (SCON)

1. Input a color-bar signal.
2. Set to Service adjustment Mode.
3. Select the item DCOL to "0" level.
4. Set the conditions as follows.

PICTURE	. . . . .	MAX
COLOR	. . . . .	MIN
BRIGHT	. . . . .	CENTER
R ON	. . . . .	ON (1)
G ON	. . . . .	OFF (0)
B ON	. . . . .	OFF (0)



5. Connect an oscilloscope probe to C Board, CN1761 pin ① (RED OUT).
6. Select SCON with 1 and 4 .
7. Adjust with 3 and 6 for: 2.10 ± 0.01 Vp-p.



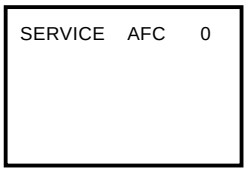
8. Reset the item DCOL to "1" level.
9. Write the memory by pressing MUTING then ENTER** .

10. Return the following back to normal after adjustment.

PICTURE	. . . . .	MAX
COLOR	. . . . .	CENTER
BRIGHT	. . . . .	CENTER
R ON	. . . . .	ON (1)
G ON	. . . . .	ON (1)
B ON	. . . . .	ON (1)

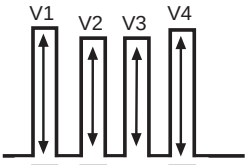
DISPLAY POSITION ADJUSTMENT (DISP)

1. Input a color-bar signal.
2. Set to Service adjustment Mode.
3. Select DISP with 1 and 4 .
4. Adjust with 3 and 6 for adjustment of characters to center .
5. Write the memory by pressing MUTING then ENTER**.



SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

1. Input a color-bar signal.
2. Set to Service adjustment Mode.
3. Connect oscilloscope probe to C Board, CN1761 Pin③ (BLUE OUT).
4. Select SHUE and SCOL with 1 and 4 .
5. Adjust with 3 and 6 for the V1 = V4 ± 0.1Vp-p (SCOL) and V2 = V3 ± 0.1Vp-p (SHUE).



6. Change data according to the following table;

	SCOL	SHUE
32"	+2 steps	-1 steps
35"	+2 steps	-1 steps

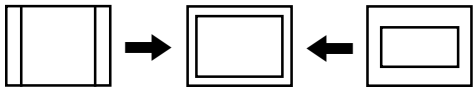
7. Write into the memory by pressing MUTING then ENTER **.

**WARNING: Do NOT turn off the power or AC immediately after pressing MUTING then ENTER. Wait at least 10 seconds.

V. SIZE ADJUSTMENT (VSIZ)

1. Input a cross-hatch signal.
2. Set to Service adjustment mode.
3. Select VSIZ with 1 and 4 .
4. Adjust with 3 and 6 for the best vertical size.
5. Write into the memory by pressing MUTING then ENTER**.

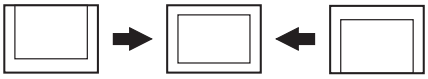
V. SIZE



V. POSITION ADJUSTMENT (VPOS)

1. Input a cross-hatch signal.
2. Set to Service adjustment Mode.
3. Select VPOS with 1 and 4 .
4. Adjust with 3 and 6 for the best vertical center.
5. Write into the memory by pressing MUTING then ENTER**.

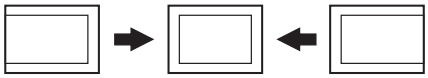
V. POSITION



H. POSITION ADJUSTMENT (HPOS)

1. Input a cross-hatch signal.
2. Set the Service adjustment Mode.
3. Select HPOS with 1 and 4 .
4. Adjust with 3 and 6 for the best horizontal center.
5. Write into the memory by pressing MUTING then ENTER**.

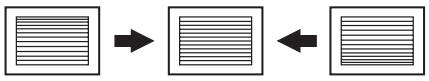
H. POSITION



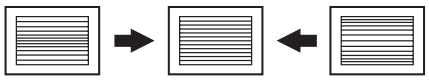
V LINEARITY (VLIN), V CORRECTION (VSCO), PIN AMP (PAMP) AND PIN PHASE (PPHA) ADJUSTMENTS

1. Input a cross-hatch signal.
2. Set to Service adjustment Mode.
3. Select VLIN, VSCO, PAMP, and PPHA with 1 and 4 .
4. Adjust with 3 and 6 for the best picture.
5. Write the memory by Pressing MUTING then ENTER** .

V LINEARITY(VLIN)

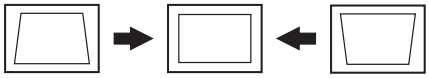


VS CORRECTION (VSCO)



PIN AMP (PAMP)

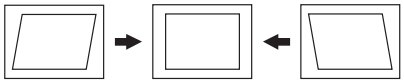
PIN PHASE (PPHA)



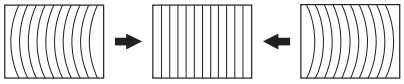
V ANGLE (VANG), V BOW (VBOW), UPPER PIN (UPIN) AND LOW PIN (LPIN) ADJUSTMENTS

1. Input a cross hatch signal.
2. Set to Service adjustment Mode.
3. Select VVANG, VBOW, UPIN, and LPIN with 1 and 4 .
4. Adjust with 3 and 6 for the best picture.
5. Write the memory by Pressing MUTING then ENTER** .

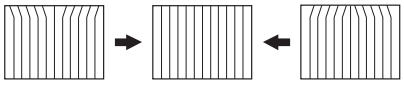
V ANGLE (VANG)



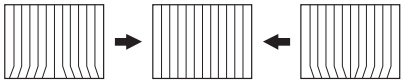
V BOW (VBOW)



UPPER PIN (UPIN)



LOW PIN (LPIN)



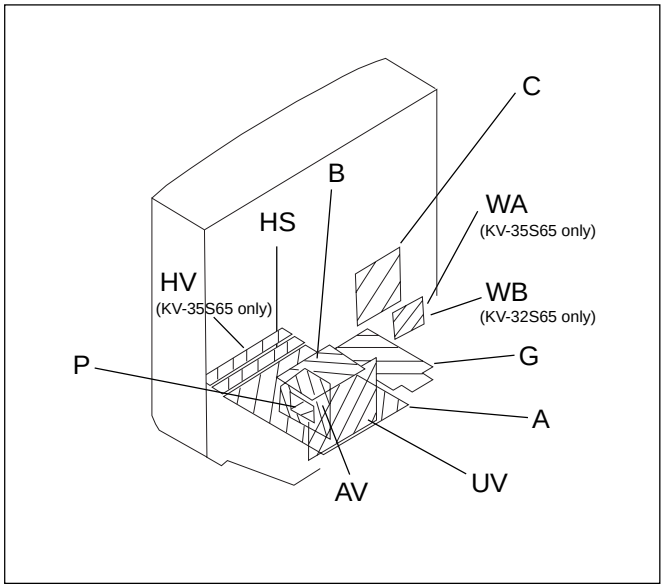
P BOARD ADJUSTMENTS

PIP V. POSITION (PIPV), PIP H. POSITION (PIPH)

1. Input a color bar signal.
2. Set to service adjustment mode.
3. Select PHOP with 1 and 4 .
4. Adjust with 3 and 6 for the best balanced position at four corner P in P display position.
5. Adjust P in P put at lower right position.
6. Write the memory by Pressing MUTING then ENTER**.

**WARNING: Do NOT turn off the power or AC immediately after pressing MUTING then ENTER. Wait at least 10 seconds.

6-2. CIRCUIT BOARDS LOCATION



6-3. PRINTED WRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
  KΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : 1/4 W

- 1/4 W in resistance, 1/10 W and 1/8 W in chip resistance.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved. (Refer to R530 and R531 adjustment on Page 15.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced(◪)	Adjustment(⊠)
IC351,IC501,D519,D520,D521 C531,C532,R387,R529,R530,R531, R532,R533,R550,T503.....A BOARD IC643,R661.....G BOARD	R530,R531

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are DC with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  S : Measurement impossibillity.
- ▬▬ : B+line.
- - - V : B-line.
  (Actual measured value may be different).
- ⇨ : signal path. (RF)
- Circled numbers are waveform references.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

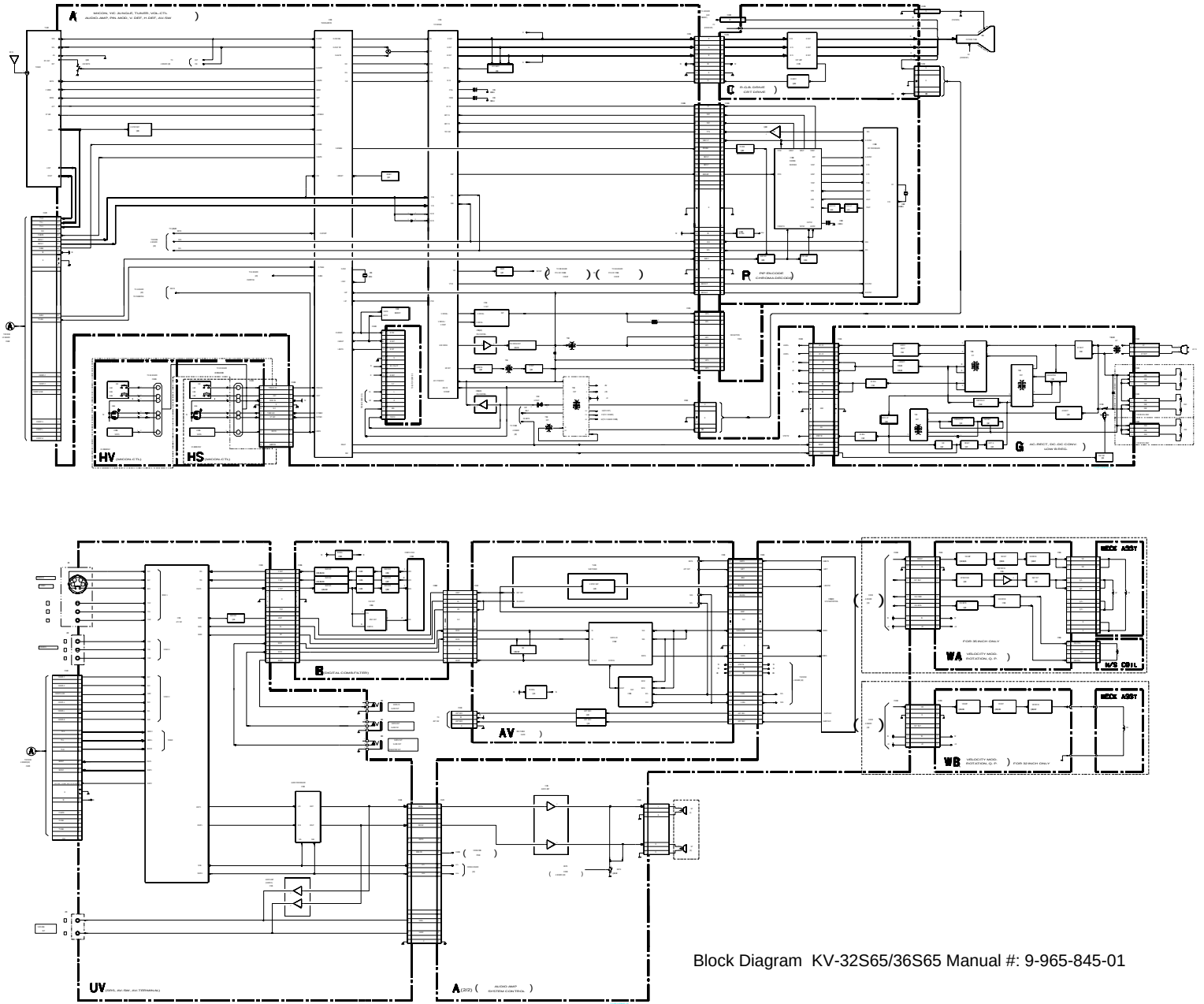
The symbol ▮⊟ display is on the component side.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

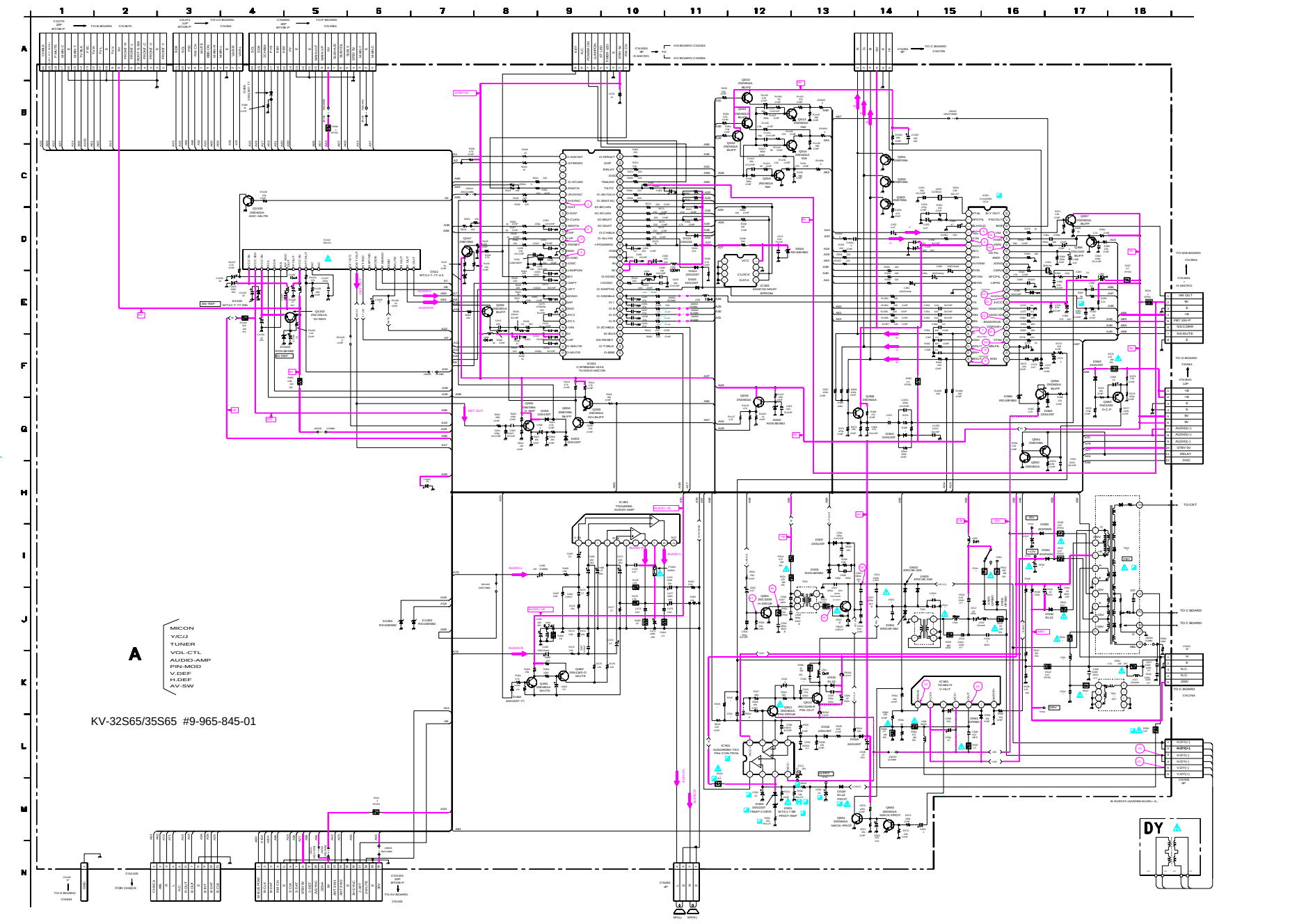
The symbol ▮⊟ indicate fast operating fuse.
Replace only with fuse of same rating as marked.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole ▮⊟ indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.



Block Diagram KV-32S65/36S65 Manual #: 9-965-845-01


A
MICON
Y/C/J
TUNER
VOL-CTL
AUDIO-AMP
PIN-MOD
V.DEF
H.DEF
AV-SW
KV-32S65/35S65 #9-965-845-01
DY

A BOARD (*) MARK LIST

REF. NO.	LOC.	KV-32S65	KV-35S65
C069	C-11	#	10MF
C370	G-14	0.022MF	0.047MF
C513	J-14	0.056MF	0.033MF
C514	J-15	0.62MF	0.82MF
C520	K-13	1000PF	0.0022MF
C521	L-12	0.0022MF	0.0033MF
C537	I-17	470MF	1000MF
C539	I-17	470MF	1000MF
C542	K-17	#	0.047MF
C1501	J-15	0.12MF	#
CN1941	F-18	5P	8P
L541	K-17	#	1-406-677-11
R069	C-11	#	10K
R085	C-11	#	10K
R365	G-14	150K	100K
R374	G-14	1.5M	1M
R511	I-16	68	100
R515	K-12	27K	15K
R523	L-13	10K	8.2K
R529	M-13	22K	18K
R531	M-13	68K	220K
R533	M-12	47K	33K
R535	K-11	150K	180K
R541	J-17	#	0.47
R542	K-18	#	22
R546	I-17	22K	18K
T502	J-15	1-424-545-11	1-429-408-11
T503	I-18	NX-2609	NX-3005
T504	K-18	#	1-413-059-00

#: NOT MOUNTED

A BOARD
LOCATOR LIST

DIODE	
D001	A6
D002	D4
D003	A6
D004	C3
D005	D1
D006	E2
D011	A5
D013	C5
D014	D4
D015	C4
D353	D7
D356	E3
D360	E7
D362	E8
D368	C8
D462	F1
D501	I3
D502	I9
D503	I9
D504	I8
D505	I6
D506	I6
D507	I3
D515	H5
D516	H3
D518	I3
D519	F9
D520	G3
D521	G3
D530	F10
D531	F11
D534	G9
D561	G8
D562	G3
D1102	B10
D1103	B12
D1247	E12
D1248	E12
D1263	D9
D1264	E10

IC	
IC001	B4
IC002	C3
IC003	E1
IC351	D5
IC461	F5
IC501	H3
IC561	G8
IC1261	D11
IC1401	E11
IC1402	E11

TRANSISTOR	
Q001	A6
Q002	C5
Q003	I2
Q004	I2
Q010	D4
Q011	D4
Q012	D4
Q013	E4
Q014	E4
Q015	D3
Q016	D3
Q017	A5
Q301	D8
Q302	C7
Q303	C7
Q354	E8
Q356	D4
Q357	E5
Q358	E8
Q461	G3
Q462	G4
Q501	J4
Q502	J9
Q511	H3
Q512	H4
Q551	I3
Q552	I3
Q561	F7
Q562	F7
Q563	H3
Q1102	B12
Q1103	A10
Q1231	E13
Q1232	E13
Q1261	C12
Q1262	C12
Q1263	B12

A BOARD IC VOLTAGE LIST

IC001	
pin	volt
1	0
2	4.7
3	NC
4	NC
5	4.7
6	4.0
7	0.05
8	0.04
9	NC
10	NC
11	NC
12	4.7
13	3.8
14	1.1
15	4.7
16	GND
17	2.2
18	2.2
19	0
20	4.7
21	2.9
22	2.6
23	0
24	0
25	GND
26	1.5
27	2.4
28	2.3
29	4.7
30	0.8
31	0
32	0
33	NC
34	NC
35	NC
36	0.2
37	0
38	0
39	0
40	0
41	0
42	0
43	0
44	2.6
45	2.7
46	4.7
47	4.7
48	GND
49	GND
50	4.7
51	0
52	0
53	4.7
54	4.7
55	4.7
56	4.7
57	4.7
58	0.06
59	3.0
60	3.4
61	0
62	4.4
63	NC
64	4.5

IC351	
pin	volt
1	2.0
2	5.3
3	4.0
4	0
5	4.0
6	8.7
7	0
8	4.7
9	0.2
10	6.3
11	6.0
12	5.9
13	GND
14	0
15	0
16	5.0
17	0
18	5.0
19	4.0
20	2.1
21	4.4
22	1.9
23	4.8
24	1.8
25	3.4
26	2.5
27	8.6
28	0.6
29	2.9
30	2.9
31	3.7
32	4.2
33	4.6
34	8.8
35	3.1
36	3.3
37	3.9
38	4.1
39	2.3
40	GND
41	2.6
42	2.7
43	3.9
44	3.3
45	5.9
46	0.4
47	NC
48	NC

IC461	
pin	volt
1	1.3
2	0.7
3	12.4
4	0.7
5	1.3
6	0
7	NC
8	11.3
9	22.7
10	11.3
11	NC

IC501	
pin	volt
1	3.3
2	7.6
3	8.2
4	-16.0
5	2.1
6	2.9
7	-15.8
8	11.8

IC561	
pin	volt
1	1.4
2	11.8
3	-13.9
4	-16.0
5	0.05
6	12.8
7	1.5

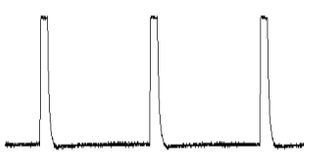
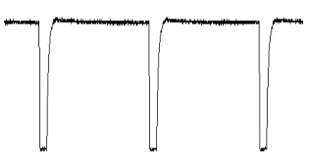
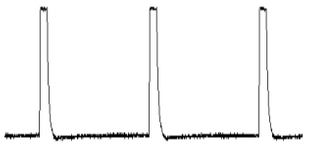
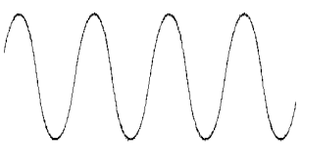
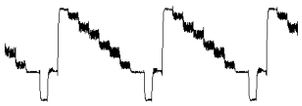
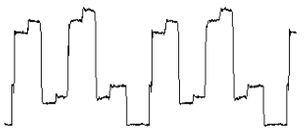
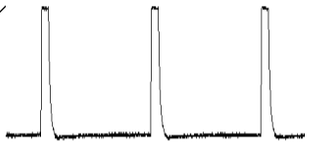
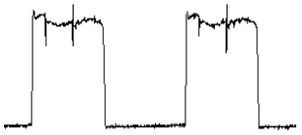
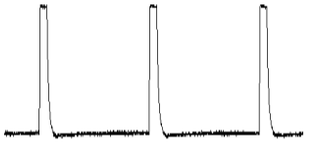
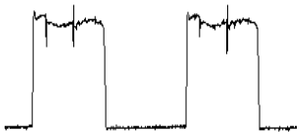
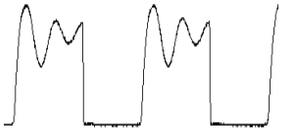
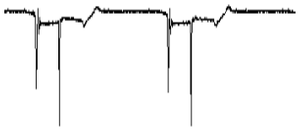
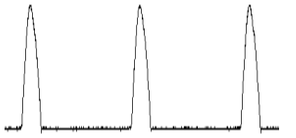
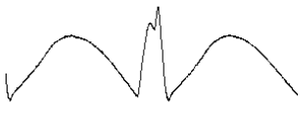
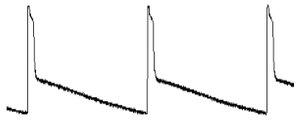
All voltages are in V

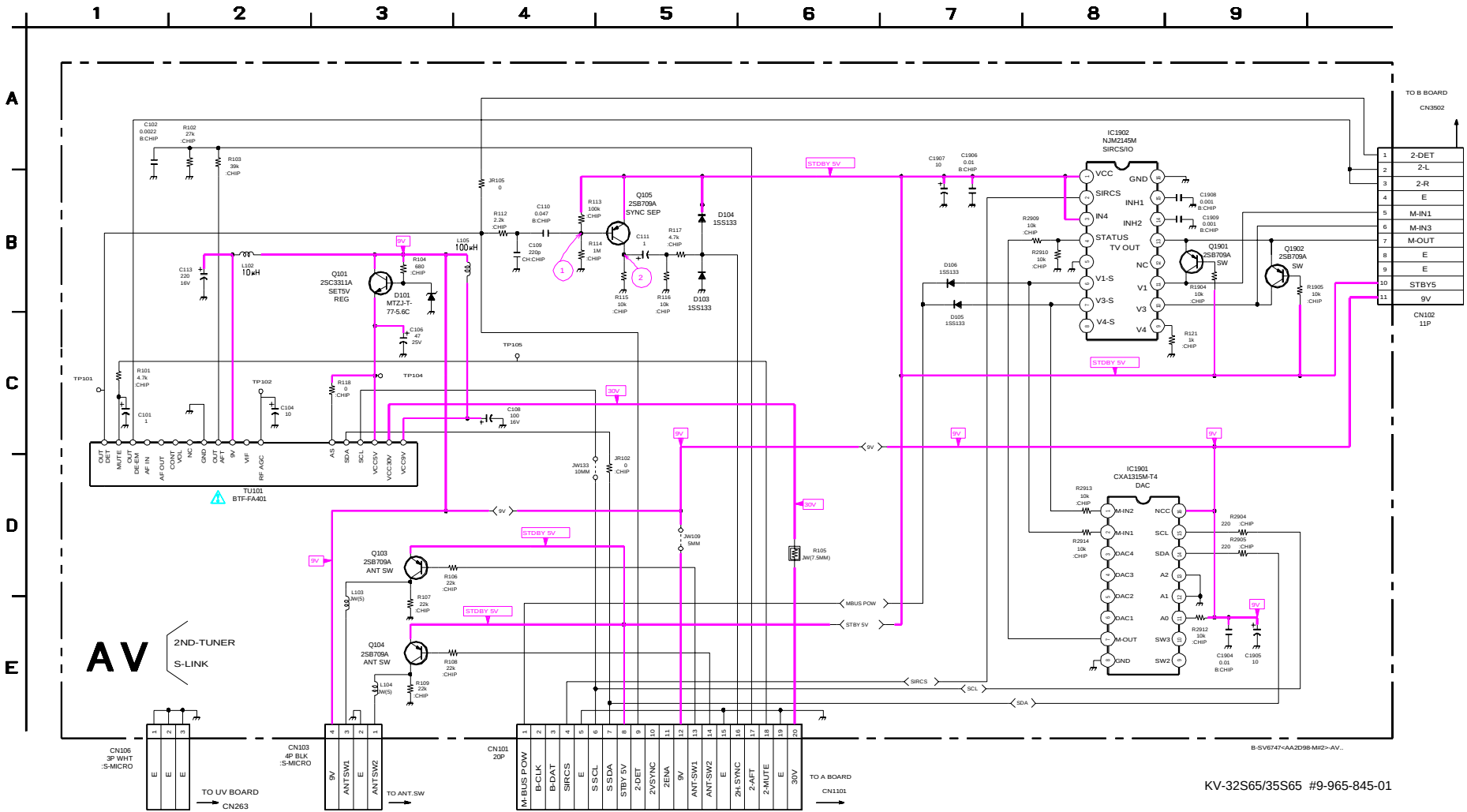
A BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q001	4.9	0.7	4.8
Q002	4.2	8.7	4.8
Q003	-0.4	3.8	GND
Q004	0.6	GND	3.8
Q010	0	8.7	0
Q011	0	8.7	0
Q012	0	8.7	0
Q013	-0.04	0	GND
Q014	-0.06	0	GND
Q015	0	0	GND
Q016	5.7	8.8	5.0
Q017	4.1	4.7	4.8
Q301	3.6	GND	1.6
Q302	3.6	GND	1.7
Q303	3.6	GND	1.8
Q354	0.4	GND	0.2
Q356	4.8	GND	5.4
Q357	3.6	8.7	2.9
Q358	1.6	8.7	1.7
Q461	0	22.6	0
Q462	22.6	0.7	22.7
Q501	-0.7	109	GND
Q502	-0.2	132.6	GND
Q511	-15.9	-12.3	-16.1
Q512	-16.4	-30.7	-16.1
Q551	2.8	0	2.8
Q552	0	2.8	GND
Q561	0	2.9	GND
Q562	-0.3	0	GND
Q563	135	0	135.4
Q1102	5.6	8.6	30
Q1103	0	6.9	GND

All voltages are in V

• A BOARD WAVEFORMS

1  4.7 Vp-p (H)	2  5.3 Vp-p (H)	3  4.6 Vp-p (H)	4  4.0 Vp-p (8MHZ)
5  1.8 Vp-p (H)	6 2.0 Vp-p (H)	7  4.0 Vp-p (H)	8 3.6 Vp-p (H)
9 3.5 Vp-p (H)	10  6.0 Vp-p (H)	11 1.4 Vp-p (V)	12 1.0 Vp-p (H)
13  5.5 Vp-p (H)	14  6.5 Vp-p (H).	15 1.8 Vp-p (H)	16 1.8 Vp-p (H)
17  2.5 Vp-p (H)	18  219 Vp-p (H)	19  50.3 Vp-p (H)	20  1.08 KVp-p (H)
21  130 Vp-p (H)	22 55.0 Vp-p (V)	23 1.2 Vp-p (V)	24  55.0 Vp-p (V)

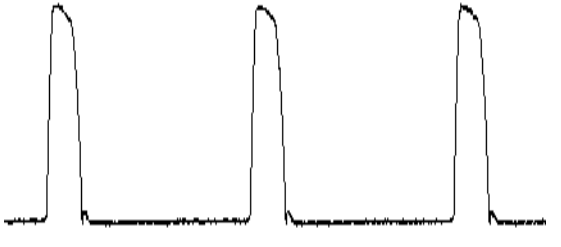

1 2 3 4 5 6 7 8 9
A B C D E
AV
2ND-TUNER
S-LINK
TO B BOARD
CN3502
2-DET
2-L
2-R
E
M-IN1
M-IN3
M-OUT
E
E
STBY5
9V
CN102
11P
IC1902
NJM2145M
SIRCS/IO
VCC
GND
SIRCS
INH1
IN4
INH2
STATUS
TV OUT
NC
V1-S
V1
V3-S
V3
V4-S
V4
IC1901
CXA1315M-T4
DAC
M-IN2
NCC
M-IN1
SCL
DAC4
SDA
DAC3
A2
DAC2
A1
DAC1
A0
M-OUT
SW3
GND
SW2
Q101
2SC3311A
SET5V
REG
Q105
2SB709A
SYNC SEP
Q103
2SB709A
ANT SW
Q104
2SB709A
ANT SW
Q1901
2SB709A
SW
Q1902
2SB709A
SW
D101
MTZJ-T-
77-5.6C
D104
1SS133
D103
1SS133
D106
1SS133
D105
1SS133
TU101
BTF-FA401
OUT DET
MUTE
OUT DEM
AF IN
AF OUT
CONT VOL
NC
GND
OUT AFT
9V
VIF
RF AGC
AS
SDA
SCL
VCC:5V
VCC:9V
VCC:30V
TP101
TP102
TP104
TP105
L102
10μH
L105
100μH
L103
JW(5)
L104
JW(5)
JW109
5MM
JW133
10MM
JR102
0
:CHIP
JR105
0
R105
JW(7.5MM)
9V
30V
STDBY 5V
MBUS POW
STBY 5V
SIRCS
SCL
SDA
CN106
3P WHT
:S-MICRO
E
E
E
TO UV BOARD
CN263
CN103
4P BLK
:S-MICRO
9V
ANT.SW1
E
ANT.SW2
TO ANT.SW
CN101
20P
M-BUS POW
B-CLK
B-DAT
SIRCS
E
S-SCL
S-SDA
STBY 5V
2-DET
2VSYNC
2ENA
9V
ANT-SW1
ANT-SW2
E
2H-SYNC
2-AFT
2-MUTE
E
30V
TO A BOARD
CN1101
B-SV6747<AA2D98-M#2>-AV..
KV-32S65/35S65 #9-965-845-01

• AV- BOARD WAVEFORMS

1

1.6 Vp-p (H)

2



4.6 Vp-p (H)

AV BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q101	4.6	8.6	4.0
Q103	4.2	4.7	4.9
Q104	5.0	0.0	4.9
Q105	5.1	0.80	4.9
Q860	0.68	0.2	0.0
Q862	0.70	0.05	0.0
Q864	2.9	4.9	2.4
Q1901	4.9	0.0	0.0
Q1902	-0.1	0.0	0.0
Q1905	5.2	0.80	4.9

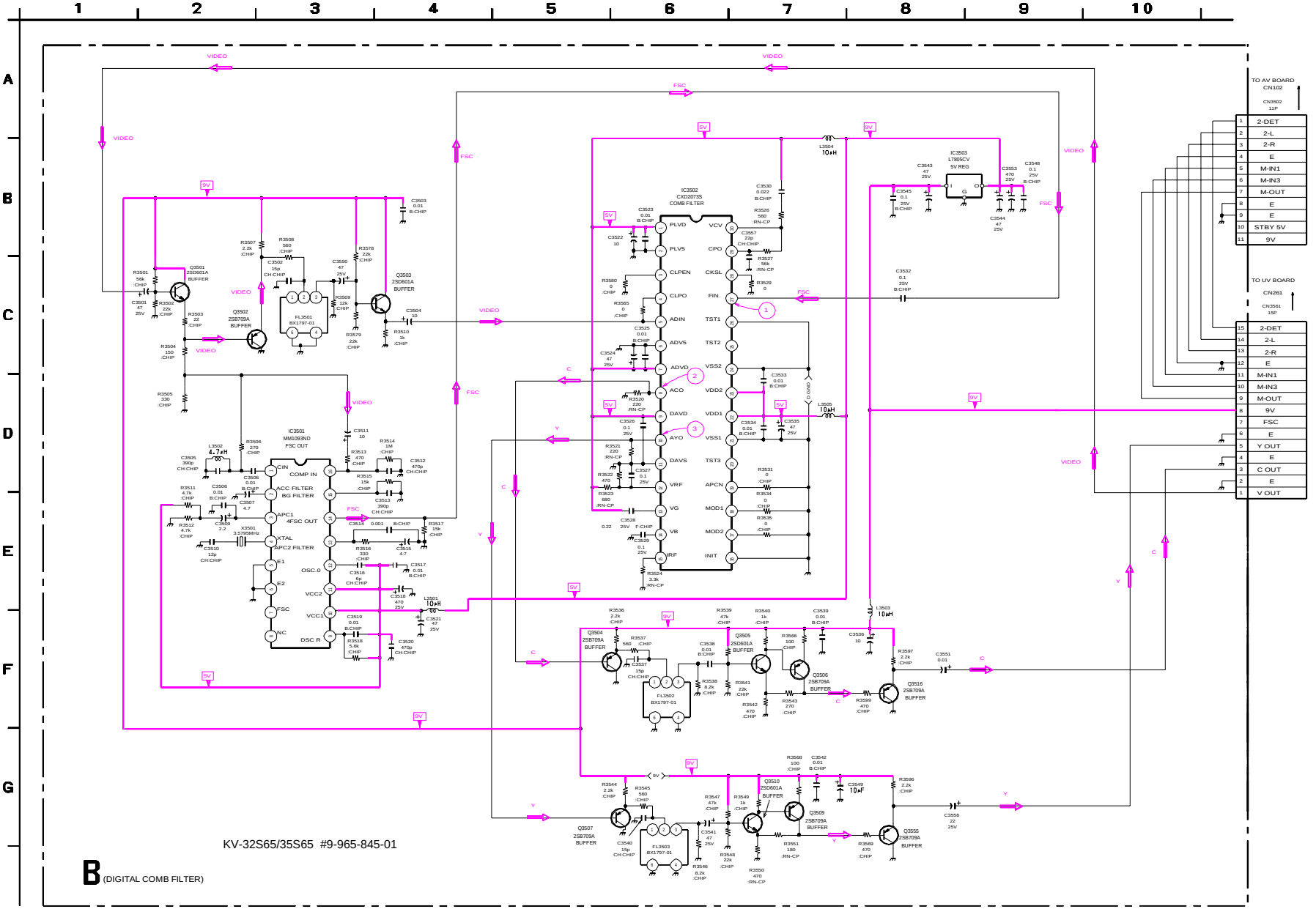
All voltages are in V

AV BOARD IC VOLTAGE LIST

IC1902	
pin	volt
1	4.9
2	4.6
3	-0.1
4	0.0
5	GND
6	0.0
7	0.0
8	NC
9	0.0
10	0.0
11	0.0
12	NC
13	0.0
14	0.5
15	0.5
16	GND

IC1901	
pin	volt
1	0.0
2	0.0
3	NC
4	NC
5	NC
6	NC
7	0.4
8	GND
9	NC
10	NC
11	8.6
12	GND
13	GND
14	0.0
15	0.0
16	8.6

All voltages are in V


KV-32S65/35S65 #9-965-845-01
B (DIGITAL COMB FILTER)
IC3502 CXD2073S COMB FILTER
IC3501 MM1093ND FSC OUT
IC3503 L7805CV 5V REG
TO AV BOARD CN102
TO UV BOARD CN261
2-DET
2-L
2-R
E
M-IN1
M-IN3
M-OUT
9V
STBY 5V
FSC
Y OUT
C OUT
V OUT
B-SV6747<AA2D98-M#2>-B..

B BOARD IC VOLTAGE LIST

IC3501	
pin	volt
1	3.5
2	0
3	0
4	0
5	GND
6	GND
7	NC
8	NC
9	0
10	5.0
11	5.0
12	3.3
13	2.4
14	3.0
15	0.7
16	0

IC3502	
pin	volt
1	5.0
2	GND
3	0
4	1.5
5	1.5
6	0.0
7	5.0
8	1.1
9	5.0
10	1.1
11	0
12	2.0
13	2.7
14	0.9
15	2.0
16	GND
17	0
18	0
19	0
20	NC
21	GND
22	5.0
23	5.0
24	GND
25	NC
26	GND
27	2.3
28	5.0
29	2.2
30	2.2

IC3503	
pin	volt
1	NC
2	8.8
3	0
4	GND
6	GND

All voltages are in V

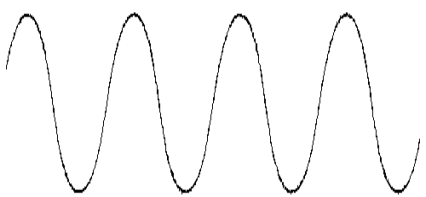
B BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q3501	2.1	8.7	1.4
Q3502	1.4	GND	2.0
Q3503	4.2	8.8	3.5
Q3504	1.1	GND	1.7
Q3505	2.7	7.8	2.1
Q3506	7.8	3.0	8.4
Q3507	1.0	GND	1.7
Q3509	7.8	2.9	8.4
Q3510	2.7	7.8	2.1
Q3516	3.0	GND	3.7
Q3555	2.7	GND	3.4

All voltages are in V

B BOARD WAVEFORMS

1

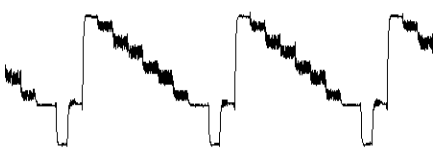


2.0 Vp-p (H)

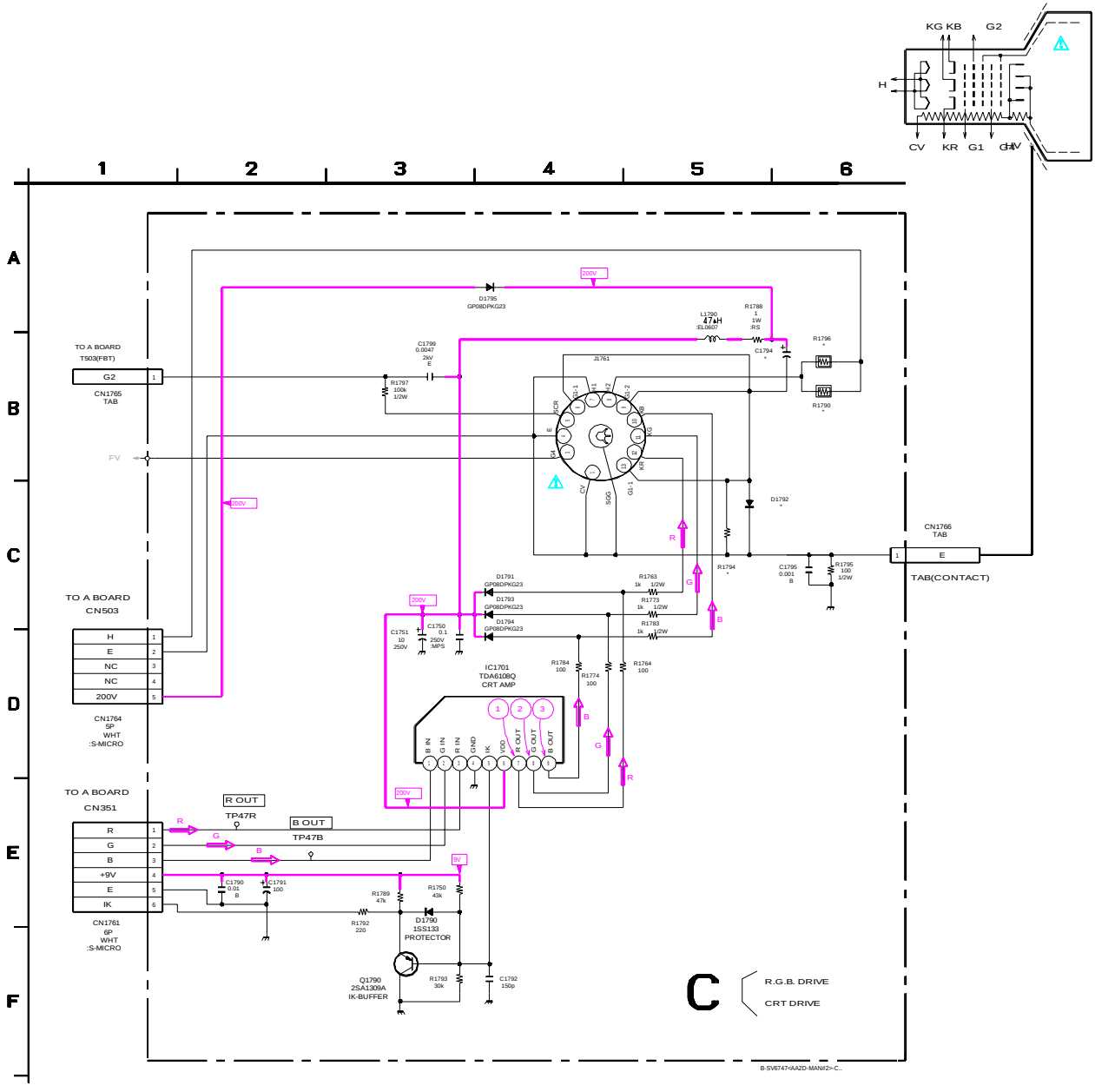
2

1.3 Vp-p (H)

3



1.7 Vp-p (H)


KG KB G2
H
CV KR G1 GH
1 2 3 4 5 6
A B C D E F
TO A BOARD
T503(FBT)
G2
CN1765
TAB
FV
TO A BOARD
CN503
H
E
NC
NC
200V
CN1764
5P
WHT
:S-MICRO
TO A BOARD
CN351
R
G
B
+9V
E
IK
CN1761
6P
WHT
:S-MICRO
R OUT
TP47R
B OUT
TP47B
200V
9V
D1795
GP08DPKG23
L1790
47uH
:EL8607
R1788
1
1W
RS
C1794
R1796
R1790
C1799
0.0047
2kV
E
R1797
100k
1/2W
J1761
D1792
CN1766
TAB
E
TAB(CONTACT)
R1794
C1795
0.001
B
R1795
100
1/2W
D1791
GP08DPKG23
D1793
GP08DPKG23
D1794
GP08DPKG23
R1763
1k
1/2W
R1773
1k
1/2W
R1783
1k
1/2W
C1750
0.1
250V
MPS
C1751
10
250V
IC1701
TDA6108Q
CRT AMP
B IN
G IN
R IN
GND
IK
VDD
R OUT
G OUT
B OUT
R1784
100
R1774
100
R1764
100
C1790
0.01
B
C1791
100
R1789
47k
R1750
43k
R1792
220
D1790
1SS133
PROTECTOR
Q1790
2SA1309A
IK-BUFFER
R1793
30k
C1792
150p
C
R.G.B. DRIVE
CRT DRIVE
B-SV6747<AA2D-MAN#2>-C..

C BOARD (*) MARK LIST

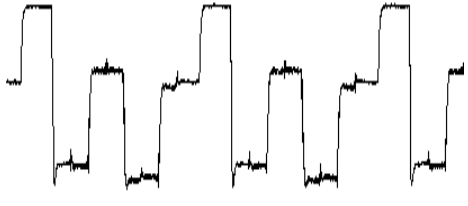
REF. NO.	KV-35S65	KV-32S65
C1794	4.7	#
D1792	GPO8DPKG23	JW (15.0MM)
R1790	1	5.6
R1794	560K	JW (10.0MM)
R1796	1	5.6

#: NOT MOUNTED

C BOARD WAVEFORMS

KV-32S65/35S65 #9-965-845-01

1

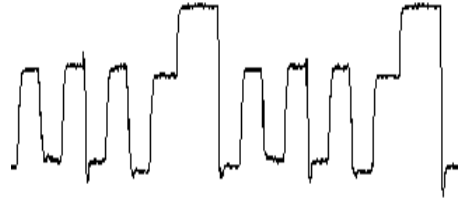


142.2 Vp-p (H)

2

130.6 Vp-p (H)

3



135.9 Vp-p (H)

C BOARD IC VOLTAGE LIST

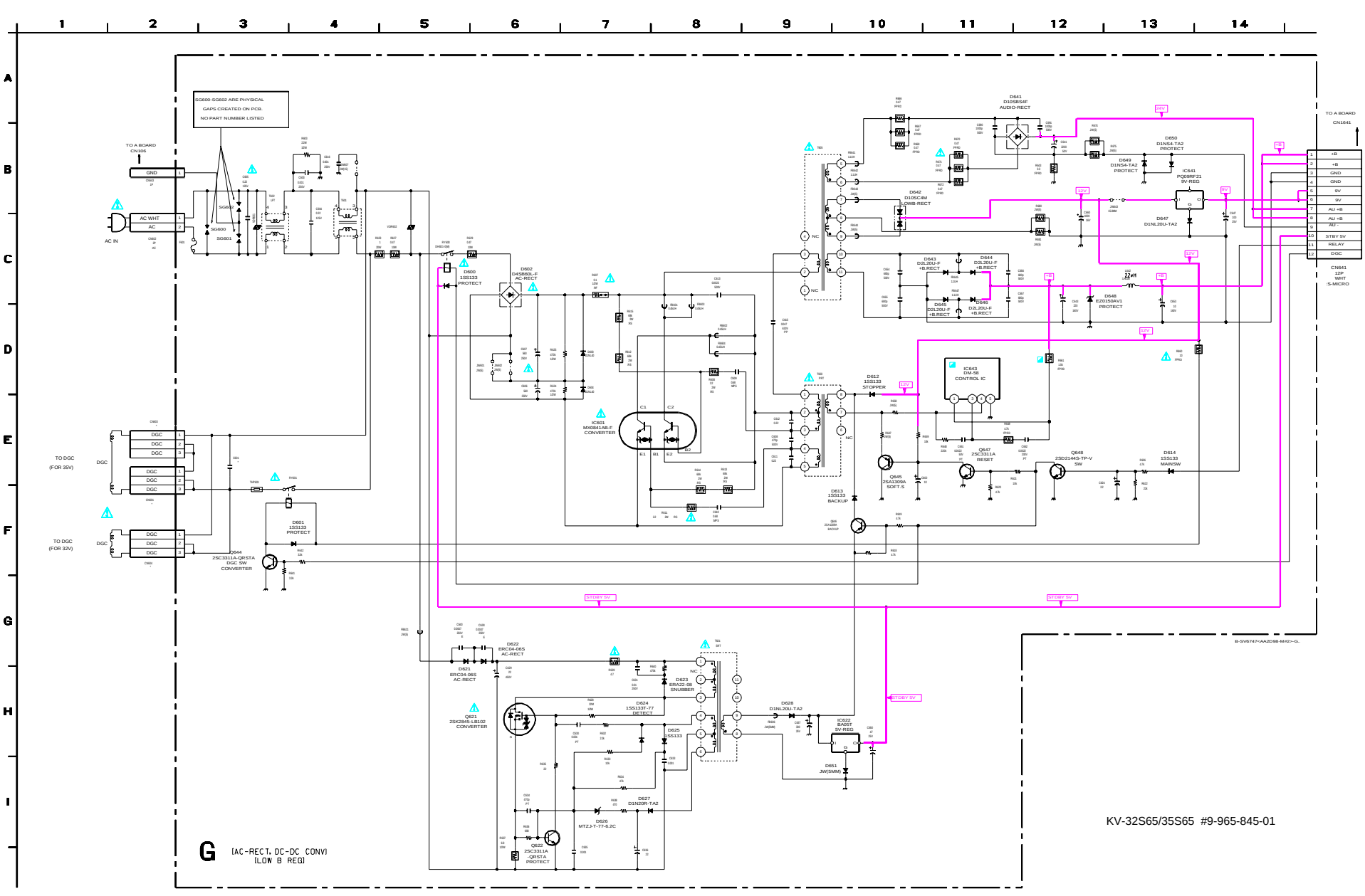
IC1701		
pin		volt
1		1.8
2		1.9
3		2.1
4		GND
5		5.5
6		203.1
7		136.7
8		146.2
9		1.1

All voltages are in V

C BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q1790	5.4	GND	4.9

All voltages are in V


SG600-SG602 ARE PHYSICAL
GAPS CREATED ON PCB.
NO PART NUMBER LISTED
TO A BOARD
CN106
GND
AC WHT
AC
AC IN
SG600
SG601
SG602
D600
1SS133
PROTECT
D602
D45SB60L-F
AC-RECT
D641
D10SBS4F
AUDIO-RECT
D642
D10SC4M
LOWB-RECT
D643
D2L20U-F
+B-RECT
D644
D2L20U-F
+B-RECT
D645
D2L20U-F
+B-RECT
D646
D2L20U-F
+B-RECT
D647
D1NL20U-TA2
D648
EZ0150AV1
PROTECT
D649
D1NS4-TA2
PROTECT
D650
D1NS4-TA2
PROTECT
IC641
PQ09RF21
9V-REG
22µH
TO A BOARD
CN1641
CN641
12P
WHT
-S-MICRO
+B
GND
9V
AU +B
AU -
STBY 5V
RELAY
DGC
12V
24V
IC601
MX0841AB-F
CONVERTER
IC643
DM-58
CONTROL IC
D612
1SS133
STOPPER
Q647
2SC3311A
RESET
Q648
2SD2144S-TP-V
SW
Q645
2SA1309A
SOFT S
D614
1SS133
MAINSW
D613
1SS133
BACKUP
TO DGC
(FOR 35V)
TO DGC
(FOR 32V)
D601
1SS133
PROTECT
Q644
2SC3311A-QRSTA
DAC SW
CONVERTER
D622
ERC04-06S
AC-RECT
D621
ERC04-06S
AC-RECT
Q621
2SK2845-LB102
CONVERTER
D623
ERA22-08
SNUBBER
D624
1SS133T-77
DETECT
D625
1SS133
D626
MTZJ-T-77-6.2C
D627
D1NZ6R-T-A2
D628
D1NL20U-TA2
Q622
2SC3311A
QRSTA
PROTECT
IC622
BA05T
5V-REG
D651
JW(5MM)
G
(AC-RECT, DC-DC CONV)
(LOW B REG)
KV-32S65/35S65 #9-965-845-01

G BOARD LOCATOR LIST

DIODE	
D600	D-3
D601	E-1
D602	H-3
D603	G-4
D604	H-4
D612	C-3
D613	D-2
D614	A-4
D621	F-3
D622	G-2
D623	F-2
D624	F-2
D625	F-2
D626	F-1
D627	F-2
D628	D-1
D631	D-2
D632	E-1
D641	B-3
D642	B-3
D643	B-4
D644	C-4
D645	B-4
D646	C-4
D647	D-2
D648	C-4
D649	A-2
D650	A-2
D651	D-1
IC	
IC601	G-4
IC622	D-1
IC641	B-2
IC643	C-2
TRANSISTOR	
Q621	F-2
Q622	G-2
Q644	E-1
Q645	D-2
Q646	C-1
Q647	D-2
Q648	A-3
TRANSFORMER	
T601	I-3
T602	J-5
T603	E-3
T605	C-3
T621	E-2

G BOARD IC VOLTAGE LIST

IC601	
pin	volt
C1	151.4
C2	300.8
B2	149.0
B1	-1.75
E1	GND
E2	151.2
IC641	
pin	volt
IN	11.1
OUT	8.9
G	GND
IC643	
1	134
2	NC
3	2.4
4	8.5
5	GND

All voltages are in V

G BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q622	0.5	1.75	GND
Q644	0	11.1	GND
Q645	11.1	GND	8.5
Q646	6.0	6.7	6.7
Q647	0	11.1	GND
Q648	0.7	0.04	GND

All voltages are in V

G BOARD TRANSISTOR VOLTAGE LIST

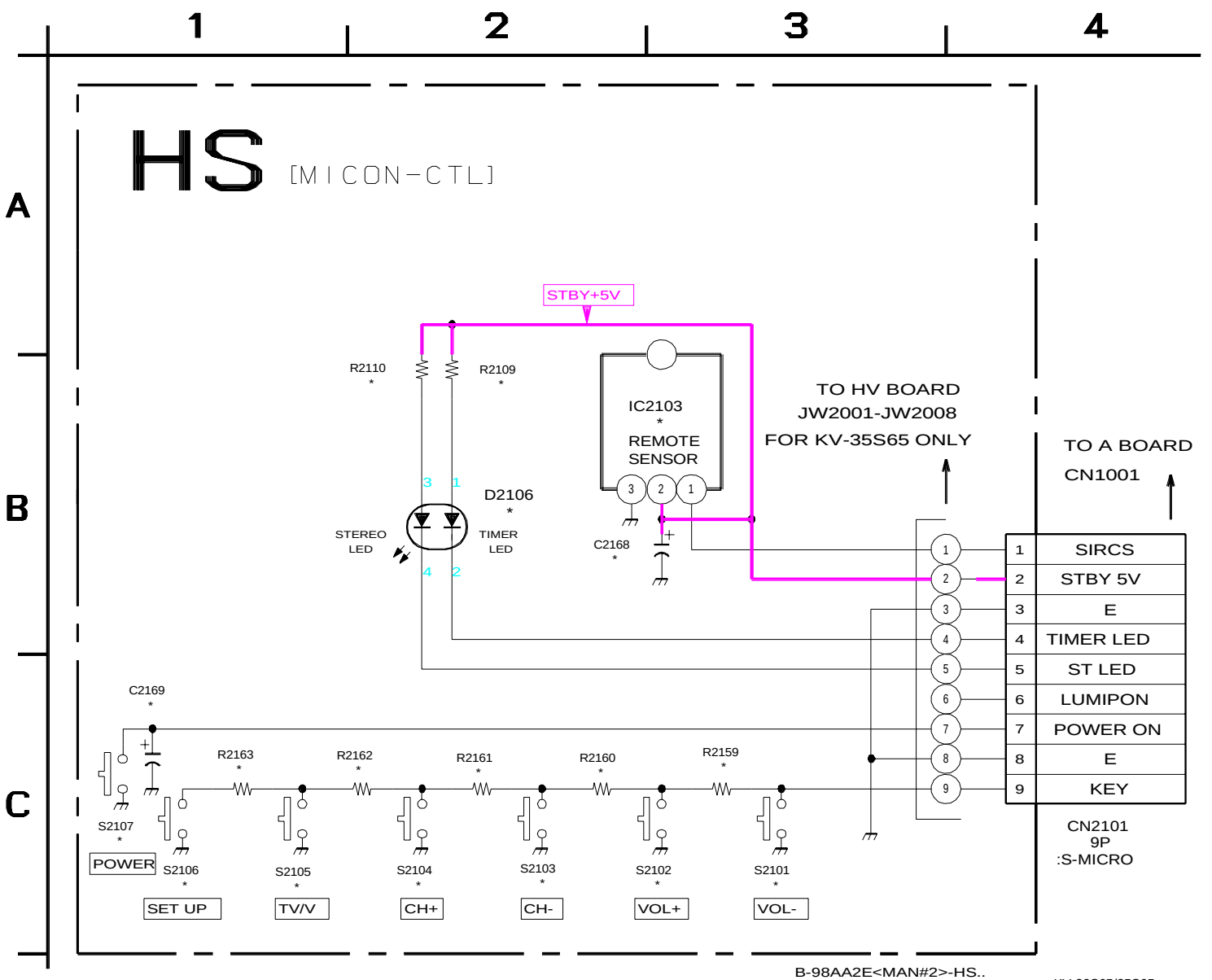
	S	D	G
Q621	0	152.4	1.75

All voltages are in V

G BOARD (*) MARK LIST

REF. NO.	KV-35S65	KV-32S65
C601	0.22	#
CN601	3P	#
CN603	3P	#
CN604	#	3P

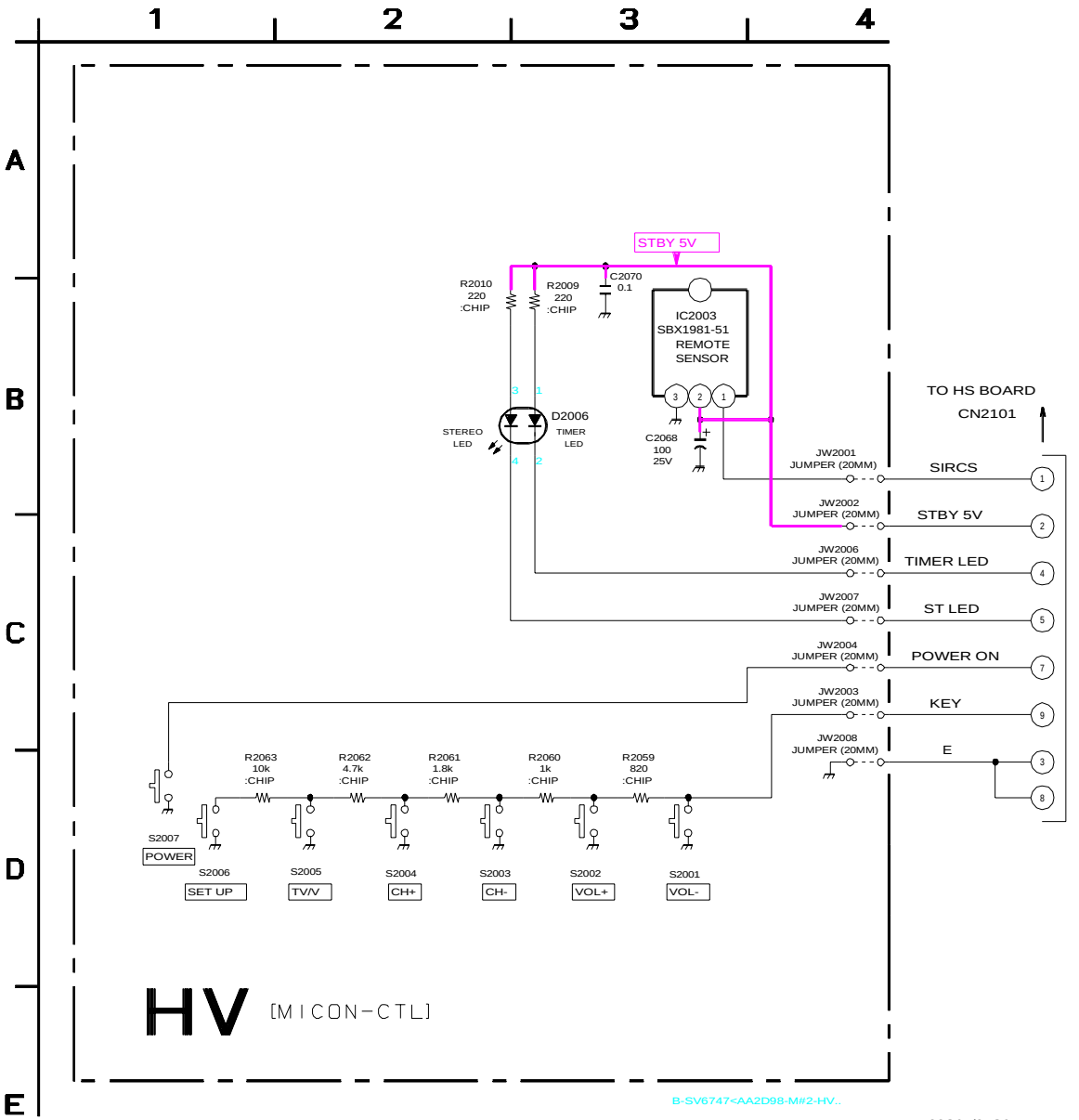
#: NOT MOUNTED

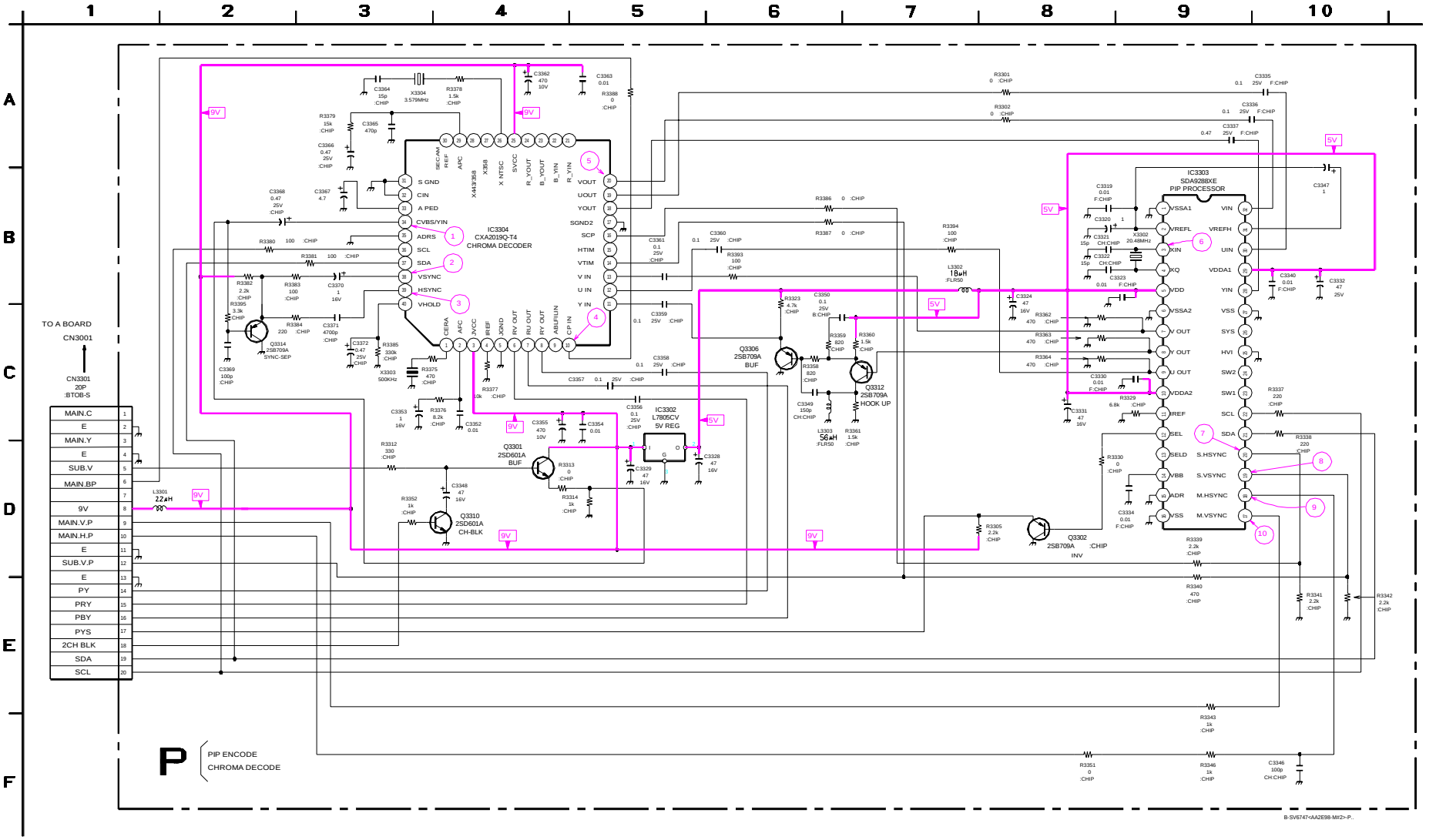

1
2
3
4
A
B
C
HS [MICON-CTL]
STBY+5V
R2110
R2109
IC2103
REMOTE SENSOR
TO HV BOARD
JW2001-JW2008
FOR KV-35S65 ONLY
TO A BOARD
CN1001
D2106
STEREO LED
TIMER LED
C2168
C2169
R2163
R2162
R2161
R2160
R2159
S2107
POWER
S2106
SET UP
S2105
TV/V
S2104
CH+
S2103
CH-
S2102
VOL+
S2101
VOL-
1 SIRCS
2 STBY 5V
3 E
4 TIMER LED
5 ST LED
6 LUMIPON
7 POWER ON
8 E
9 KEY
CN2101
9P
:S-MICRO

HS BOARD (*) MARK LIST

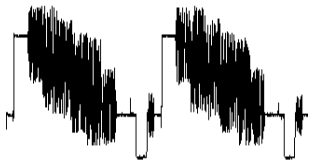
REF. NO.	LOC.	KV-35S65	KV-32S65
C2168	B-3	#	100MF
C2169	C-1	#	0.47MF
D2106	B-2	#	LED
IC2103	B-3	#	SBX1981-51
R2109	B-3	#	220
R2110	B-2	#	220
R2159	C-3	#	820
R2160	C-3	#	1K
R2161	C-2	#	1.8K
R2162	C-2	#	4.7K
R2163	C-2	#	10K
S2101	C-3	#	SWITCH, TACTILE
S2102	C-3	#	SWITCH, TACTILE
S2103	C-3	#	SWITCH, TACTILE
S2104	C-2	#	SWITCH, TACTILE
S2105	C-2	#	SWITCH, TACTILE
S2106	C-2	#	SWITCH, TACTILE
S2107	C-1	#	SWITCH, TACTILE

#: NOT MOUNTED

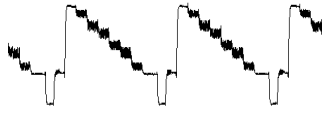

1
2
3
4
A
B
C
D
E
STBY 5V
R2010
220
:CHIP
R2009
220
:CHIP
C2070
0.1
IC2003
SBX1981-51
REMOTE
SENSOR
D2006
STEREO
LED
TIMER
LED
C2068
100
25V
TO HS BOARD
CN2101
JW2001
JUMPER (20MM)
SIRCS
JW2002
JUMPER (20MM)
STBY 5V
JW2006
JUMPER (20MM)
TIMER LED
JW2007
JUMPER (20MM)
ST LED
JW2004
JUMPER (20MM)
POWER ON
JW2003
JUMPER (20MM)
KEY
JW2008
JUMPER (20MM)
E
R2063
10k
:CHIP
R2062
4.7k
:CHIP
R2061
1.8k
:CHIP
R2060
1k
:CHIP
R2059
820
:CHIP
S2007
POWER
S2006
SET UP
S2005
TV/V
S2004
CH+
S2003
CH-
S2002
VOL+
S2001
VOL-
HV
[MICON-CTL]
B-SV6747<AA2D98-M#2-HV..


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
TO A BOARD
CN3001
CN3301
20P
:BTOB-S
MAIN.C
E
MAIN.Y
E
SUB.V
MAIN.BP
9V
MAIN.V.P
MAIN.H.P
E
SUB.V.P
E
PY
PRY
PBY
PYS
2CH BLK
SDA
SCL
IC3304
CXA2019Q-T4
CHROMA DECODER
IC3303
SDA9288XE
PIP PROCESSOR
IC3302
L7805CV
5V REG
Q3301
2SD601A
BUF
Q3306
2SB709A
BUF
Q3312
2SB709A
HOOK UP
Q3310
2SD601A
:CH-BLK
Q3302
2SB709A
:CHIP
INV
Q3314
2SB709A
SYNC-SEP
P
PIP ENCODE
CHROMA DECODE
B-SV6747-xAA2E98-Mr2>-P..
KV-32S65/35S65
#9-965-845-01

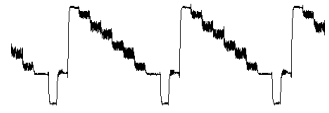
- P BOARD WAVEFORMS



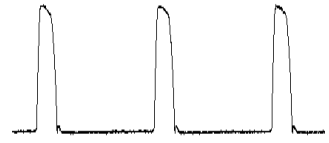
2.6 Vp-p (H)



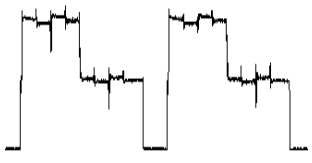
2.1 Vp-p (8MHz)



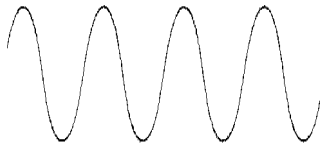
2.3 Vp-p (H)



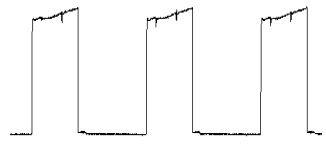
3.2 Vp-p (H)



1.0 Vp-p (H)

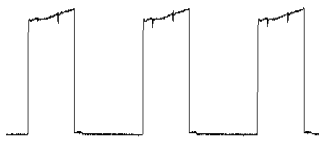


3.9 Vp-p (V)

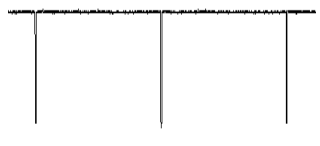


3.4 Vp-p (H)

4.0 Vp-p (V)



6.5 Vp-p (H)



6.2 Vp-p (V)

KV-32S65/35S65 #9-965-845-01

P BOARD IC VOLTAGE LIST

IC3302	
pin	volt
1	8.6
2	4.9
3	GND

IC3303	
pin	volt
1	GND
2	2.9
3	2.4
4	2.4
5	4.9
6	GND
7	0.4
8	0
9	0
10	0
11	1.9
12	0
13	NC
14	-2.9
15	GND
16	GND
17	0.6
18	0.3
19	0.0
20	0.5
21	4.7
22	4.8
23	NC
24	NC
25	GND
26	NC
27	GND
28	2.1
29	4.9
30	2.2
31	3.9
32	2.2

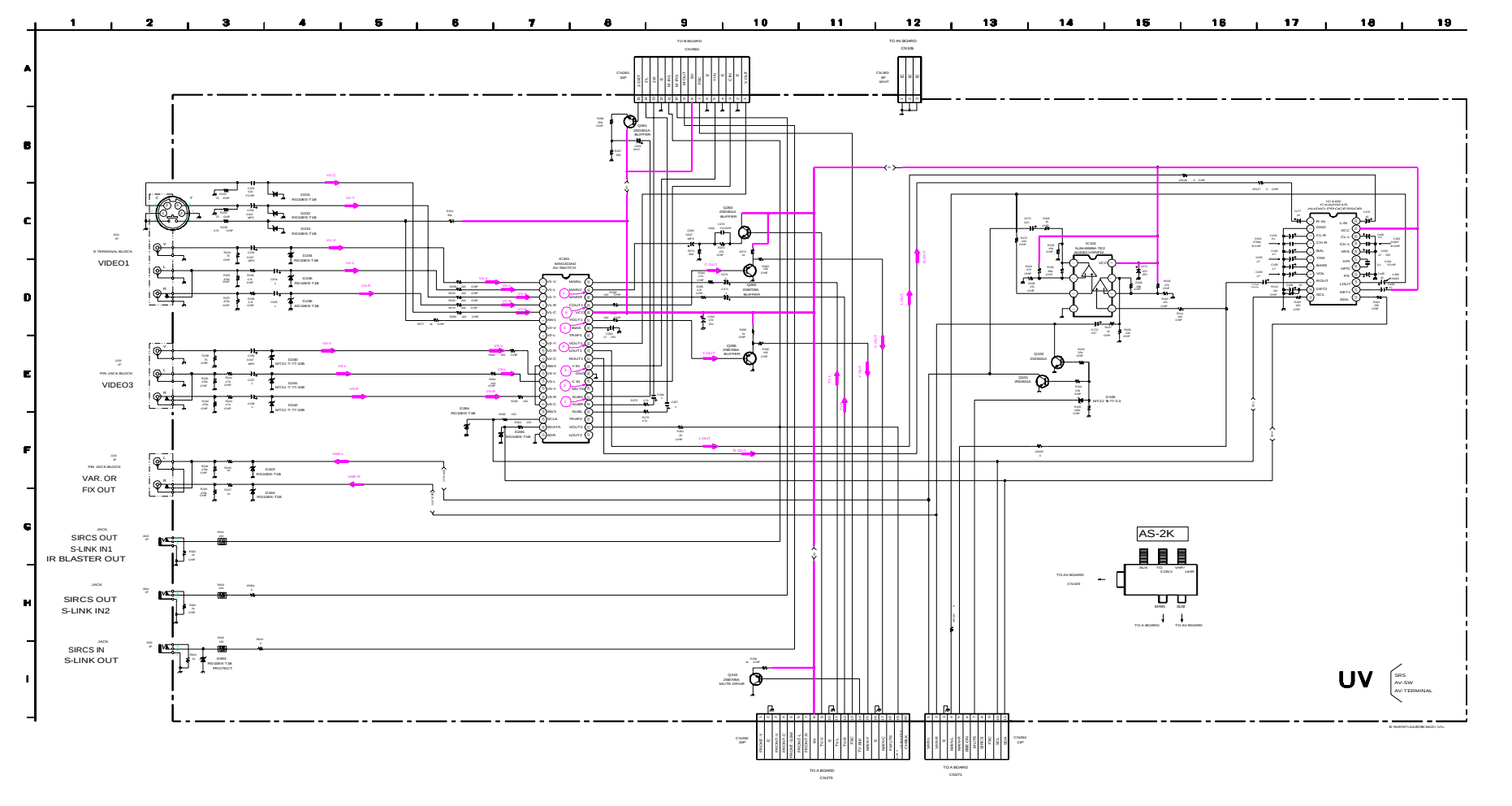
IC3304	
pin	volt
1	2.2
2	3.9
3	8.6
4	1.7
5	GND
6	2.8
7	2.8
8	2.8
9	NC
10	0.4
11	3.8
12	4.1
13	4.2
14	0.1
15	NC
16	0.6
17	GND
18	3.3
19	2.8
20	2.8
21	NC
22	NC
23	NC
24	NC
25	8.6
26	2.3
27	NC
28	NC
29	4.9
30	NC
31	GND
32	GND
33	4.0
34	4.7
35	GND
36	4.8
37	4.7
38	3.7
39	2.5
40	2.6

All voltages are in V

P BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q3301	5.1	8.6	4.5
Q3302	0	GND	0.6
Q3306	0.6	GND	1.3
Q3310	0	4.9	GND
Q3312	0.2	0	0.7
Q3314	4.5	GND	5.1

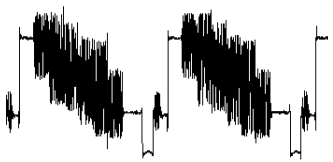
All voltages are in V


VIDEO1
VIDEO3
VAR. OR FIX OUT
SIRCS OUT
S-LINK IN1
IR BLASTER OUT
SIRCS OUT
S-LINK IN2
SIRCS IN
S-LINK OUT
AS-2K
UV
SRS
AV-SW
AV-TERMINAL

UV BOARD WAVEFORMS

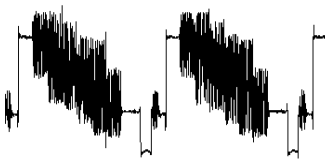
KV-32S65/35S65 #9-965-845-01

-

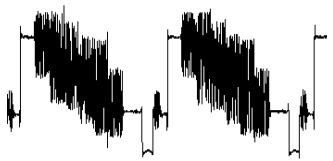


1.0 Vp-p (H)

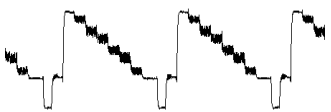
2.0 Vp-p (H)



2.0 Vp-p (H)

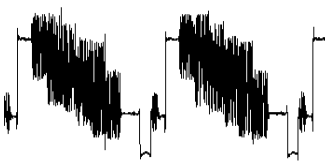


1.8 Vp-p (H)



1.8 Vp-p (H)

2.0 Vp-p (H)



1.0 Vp-p (H)

UV BOARD LOCATOR LIST

CONNECTOR		IC	
CN261	A-5	IC100	A-7
CN262	F-8	IC101	C-8
CN263	A-3	IC102	B-7
CN264	F-2	IC103	D-7
CN265	A-7	IC261	C-4
DIODE		**TRANSISTOR**	
D100	B-8	Q100	B-8
D231	B-5	Q101	B-8
D232	B-5	Q231	D-3
D233	B-5	Q232	C-2
D234	B-5	Q233	E-3
D235	B-5	Q234	D-3
D236	B-5	Q235	C-2
D237	E-3	Q236	C-3
D238	E-3	Q237	C-3
D239	E-3	Q238	C-3
D240	C-5	Q239	C-3
D241	C-5	Q240	B-2
D242	C-5	Q241	B-3
D243	F-3	Q242	A-3
D244	F-3	Q243	F-5
D245	E-3	Q261	A-4
D246	E-2	Q262	A-4
D264	F-1	Q263	B-3
D265	F-1	Q265	B-4
D902	B-1		

UV BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q100	0.2	0	GND
Q101	0.2	0	GND
Q243	0	GND	0.7
Q262	5.1	8.7	4.3
Q263	3.3	GND	3.9
Q265	4.2	GND	4.9

All voltages are in V

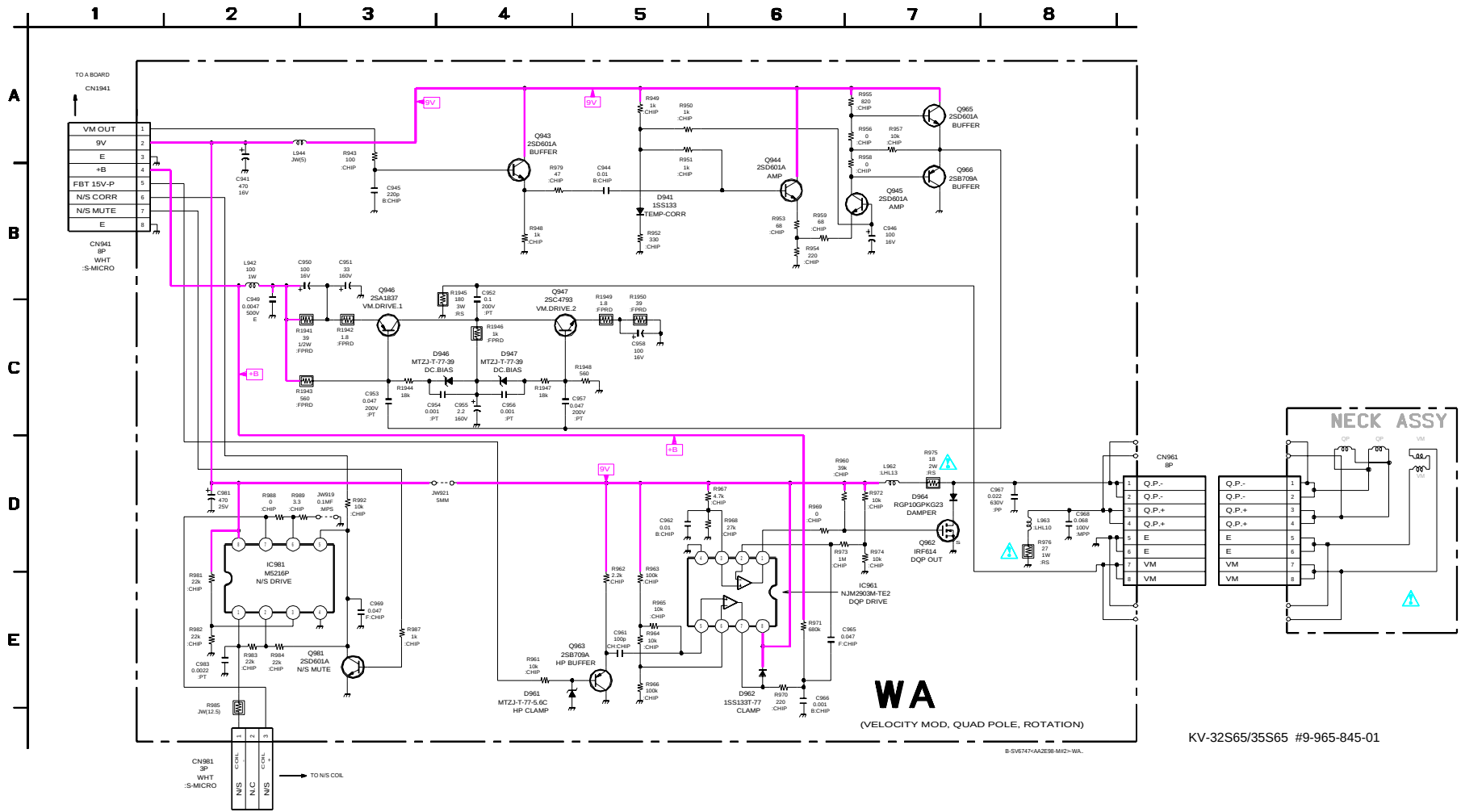
UV BOARD IC VOLTAGE LIST

IC100	
pin	volt
1	4.3
2	0
3	4.3
4	4.3
5	4.3
6	4.3
7	4.3
8	3.2
9	4.3
10	1.5
11	4.7
12	4.7
13	5.6
14	4.3
15	4.3
16	4.3
17	4.3
18	4.3
19	4.3
20	4.3
21	8.7
22	4.3

IC101	
pin	volt
1	4.2
2	4.3
3	4.3
4	0
5	4.3
6	4.3
7	4.2
8	8.7

IC261	
pin	volt
1	4.7
2	4.0
3	5.1
4	4.0
5	4.7
6	0.5
7	4.7
8	4.0
9	4.7
10	4.0
11	4.7
12	4.6
13	4.7
14	4.0
15	0
16	4.0
17	4.6
18	NC
19	4.7
20	4.7
21	GND
22	4.0
23	5.3
24	NC
25	4.0
26	4.0
27	5.3
28	NC
29	4.7
30	GND
31	5.7
32	4.0
33	4.0
34	5.0
35	NC
36	4.1
37	4.1
38	8.7
39	3.3
40	4.0
41	5.1
42	4.0

All voltages are in V


1
2
3
4
5
6
7
8
A
B
C
D
E
TO A BOARD
CN1941
VM OUT
9V
E
+B
FBT 15V-P
N/S CORR
N/S MUTE
E
CN941
8P
WHT
:S-MICRO
9V
+B
Q943
2SD601A
BUFFER
Q944
2SD601A
AMP
Q945
2SD601A
AMP
Q965
2SD601A
BUFFER
Q966
2SB709A
BUFFER
D941
1SS133
TEMP-CORR
Q946
2SA1837
VM.DRIVE.1
Q947
2SC4793
VM.DRIVE.2
D946
MTZJ-T-77-39
DC.BIAS
D947
MTZJ-T-77-39
DC.BIAS
IC981
M5216P
N/S DRIVE
Q981
2SD601A
N/S MUTE
Q963
2SB709A
HP BUFFER
D961
MTZJ-T-77-5.6C
HP CLAMP
D962
1SS133T-77
CLAMP
D964
RGP10GPKG23
DAMPER
Q962
IRF614
DQP OUT
IC961
NJM2903M-TE2
DQP DRIVE
CN961
8P
Q.P.-
Q.P.-
Q.P.+
Q.P.+
E
E
VM
VM
NECK ASSY
CN981
3P
WHT
:S-MICRO
N/S
N.C
N/S
TO N/S COIL
WA
(VELOCITY MOD, QUAD POLE, ROTATION)
B-SV6747<AA2E98-M#2>-WA-
KV-32S65/35S65 #9-965-845-01

WA BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q943	2.9	8.7	2.3
Q944	2.6	8.7	2.0
Q945	2.6	5.6	2.0
Q946	133.7	67.2	134.2
Q947	0.9	67.3	0.4
Q963	4.5	GND	5.1
Q965	5.6	8.7	5.6
Q966	5.6	GND	5.6
Q981	0.0	3.7	GND

All voltages are in V

	D	G	S
Q962	11.2	3.7	GND

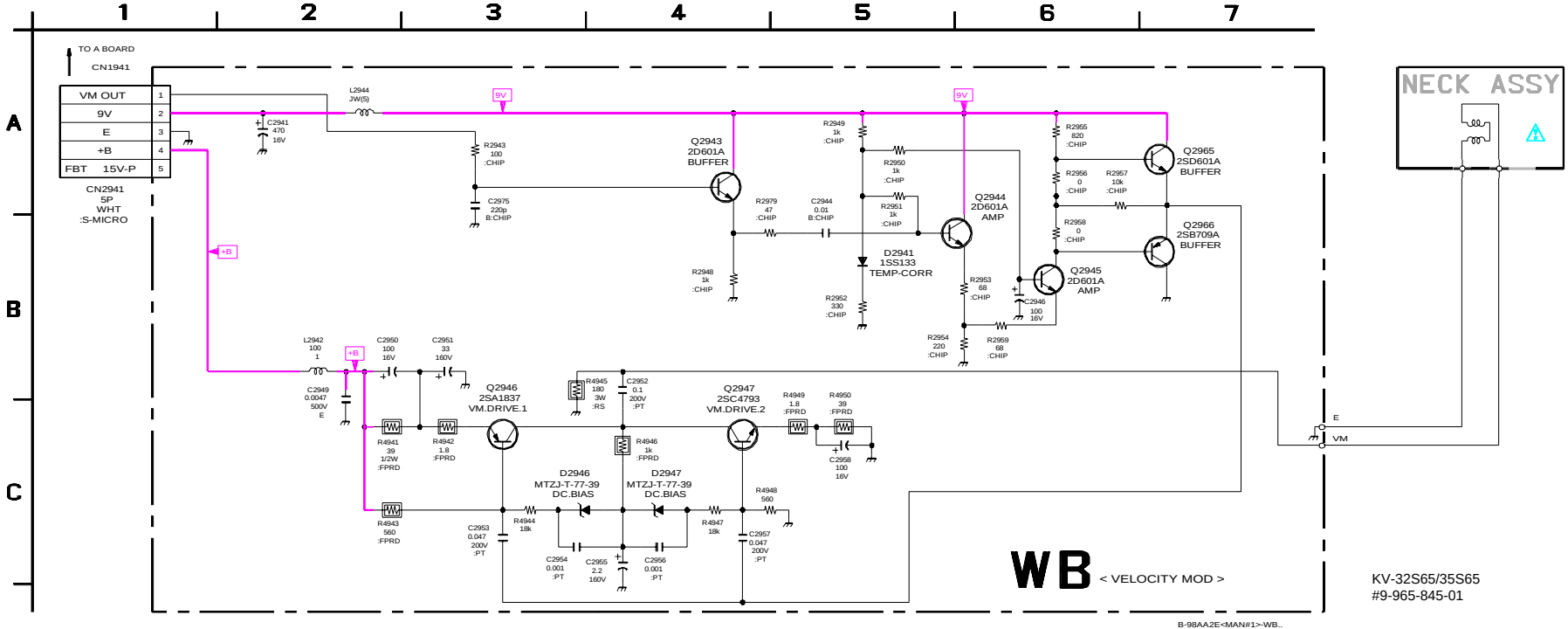
All voltages are in V

WA BOARD IC VOLTAGE LIST

IC961	
pin	volt
1	3.7
2	4.0
3	7.5
4	GND
5	4.6
6	4.2
7	4.6
8	8.7

IC981	
pin	volt
1	5.0
2	4.2
3	4.4
4	GND
5	3.7
6	3.7
7	3.7
8	8.7

All voltages are in V


1
2
3
4
5
6
7
A
B
C
TO A BOARD
CN1941
VM OUT 1
9V 2
E 3
+B 4
FBT 15V-P 5
CN2941
5P
WHT
:S-MICRO
L2944
JW(5)
9V
C2941
470
16V
R2943
100
:CHIP
C2975
220p
B:CHIP
Q2943
2D601A
BUFFER
R2979
47
:CHIP
C2944
0.01
B:CHIP
R2948
1k
:CHIP
R2949
1k
:CHIP
R2950
1k
:CHIP
R2951
1k
:CHIP
Q2944
2D601A
AMP
D2941
1SS133
TEMP-CORR
R2952
330
:CHIP
R2953
68
:CHIP
R2954
220
:CHIP
R2959
68
:CHIP
C2946
100
16V
Q2945
2D601A
AMP
R2955
820
:CHIP
R2956
0
:CHIP
R2957
10k
:CHIP
R2958
0
:CHIP
Q2965
2SD601A
BUFFER
Q2966
2SB709A
BUFFER
NECK ASSY
E
VM
L2942
100
1
+B
C2950
100
16V
C2951
33
160V
C2949
0.0047
500V
E
R4941
39
1/2W
:FPRD
R4942
1.8
:FPRD
R4943
560
:FPRD
Q2946
2SA1837
VM.DRIVE.1
R4945
180
3W
:RS
C2952
0.1
200V
:PT
R4946
1k
:FPRD
Q2947
2SC4793
VM.DRIVE.2
R4949
1.8
:FPRD
R4950
39
:FPRD
C2958
100
16V
D2946
MTZJ-T-77-39
DC.BIAS
D2947
MTZJ-T-77-39
DC.BIAS
R4944
18k
R4947
18k
R4948
560
C2953
0.047
200V
:PT
C2954
0.001
:PT
C2955
2.2
160V
C2956
0.001
:PT
C2957
0.047
200V
:PT
WB
< VELOCITY MOD >
KV-32S65/35S65
#9-965-845-01
B-98AA2E<MAN#1>-WB..

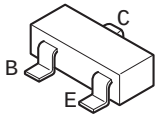
WB BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q2943	3.0	8.9	2.4
Q2944	2.6	8.9	2.0
Q2945	2.7	5.7	2.0
Q2946	133.5	67.5	134.1
Q2947	0.9	67.5	0.4
Q2965	5.7	8.9	5.7
Q2966	5.7	GND	5.7

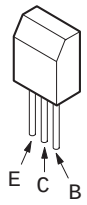
All voltages are in V

6-4. SEMICONDUCTORS

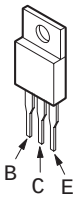
DTC114EK
2SC1623-L5L6
2SA1330-06
2SA1162-G
2SD601A-Q



2SC3209LK



2SA1837
2SC4159-E



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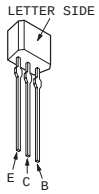
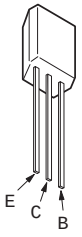
2SC2785-HFE



2SD2144S-V



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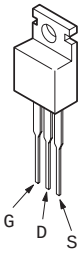
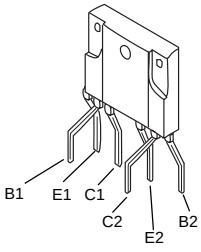


MX0841



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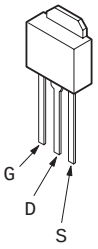
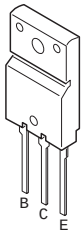
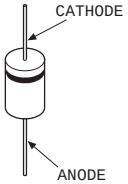


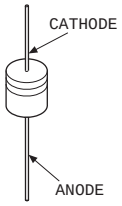
2SC5148



ERC06-15S
ISSI33T-77



D1NS4
D1N20R
MTZJ-3.3
MTZJ-33A
RD10ESB2
RD39ES-B2
RD5.6ESB2
RD6.2ESB2



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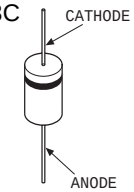
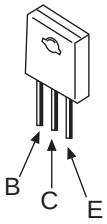
EZD150AV1
GP08D
MTZJ-T-77-4.3C
EGP20G



2SC4834M



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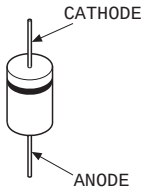
ERD29-08J



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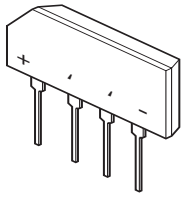
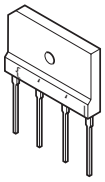
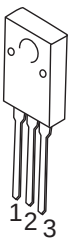


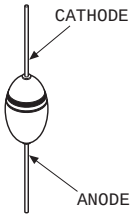
D4SB60L
D1NL40-TA2



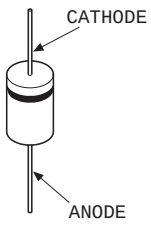
D10SC4M



U05G



D1NL20U



SECTION 7
EXPLODED VIEW

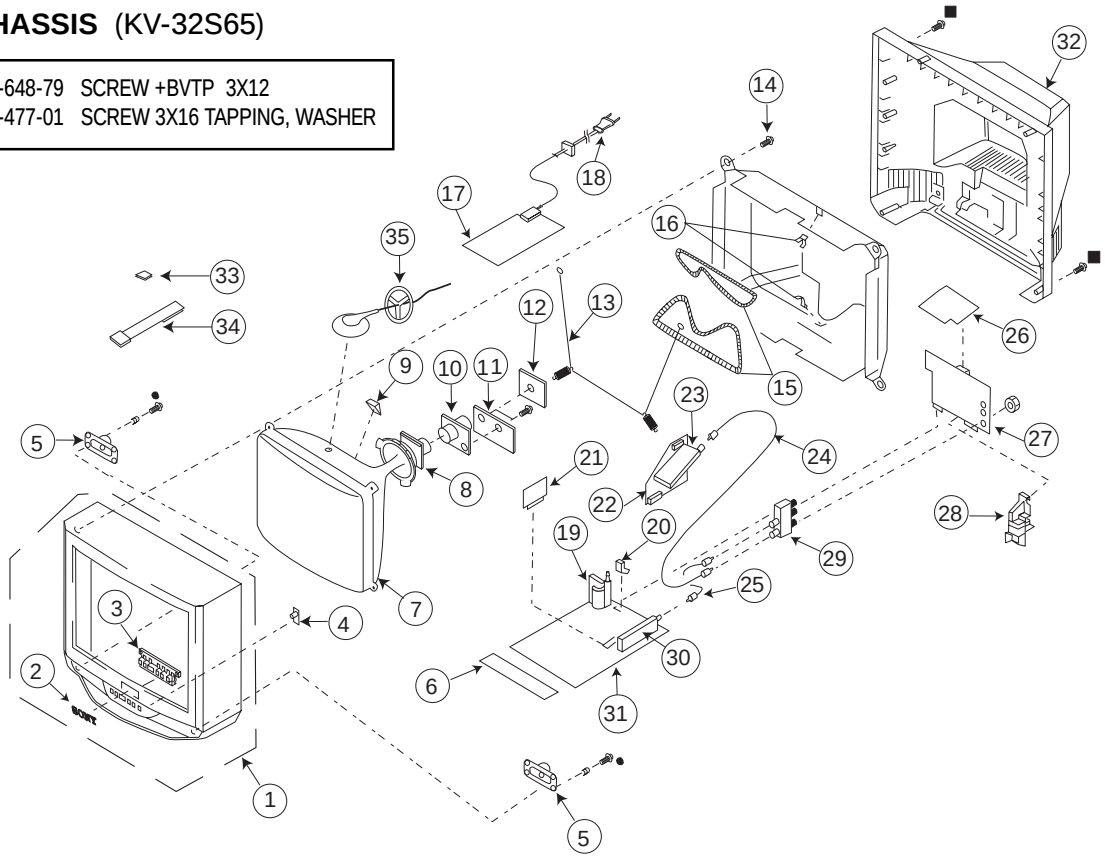
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked with an asterisk " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and "⚠" are critical for safety. Replace only with specified part number.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-1. CHASSIS (KV-32S65)

■ 7-685-648-79 SCREW +BVTP 3X12
● 4-388-477-01 SCREW 3X16 TAPPING, WASHER



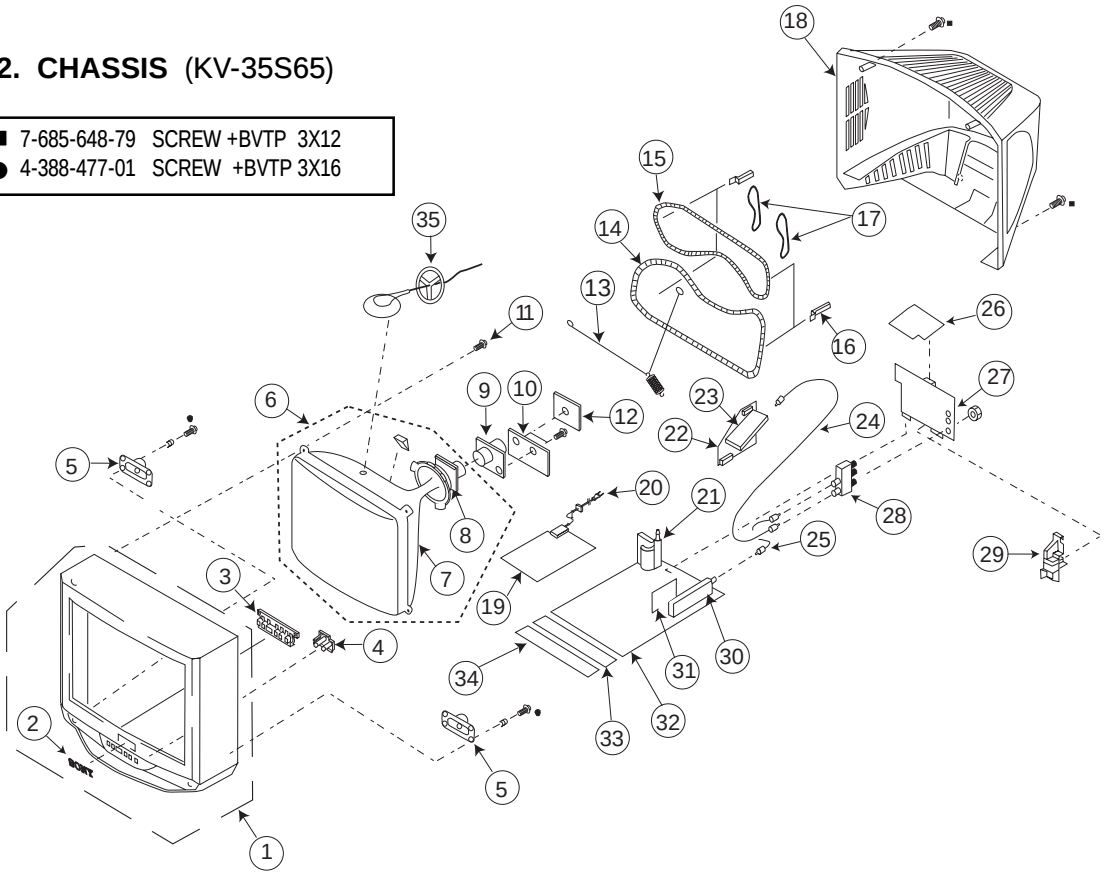
REF.NO.		PART NO.	DESCRIPTION	REMARK
1		X-4035-773-2	BEZNET ASSY	2-3
2		4-046-160-11	EMBLEM (NO.9), SONY	
3		4-063-573-01	BUTTON, MULTI	
4		4-063-570-01	GUIDE, LED	
5		1-504-531-11	SPEAKER (13.1X6.2CM)	
6	*	A-1372-519-A	HS BOARD, COMPLETE	
7	⚠	8-733-757-05	CRT 34FX2T	
8	⚠	8-451-482-11	DY Y34FXA2-V	
9		4-053-005-01	SPACER, DY	
10	⚠	1-452-579-21	NECK ASSY	
11	*	A-1372-508-A	WB BOARD, MOUNTED	
12	*	A-1331-837-A	C BOARD, MOUNTED	
13		4-036-329-01	SPRING (B), TENSION	
14		4-041-268-01	SCREW (7), TAPPING	
15	⚠	1-402-952-11	COIL, DEMAGNETIZATION	
16	*	4-371-629-01	STOPPER WIRE	
17	*	A-1316-389-A	G BOARD, COMPLETE	
18	⚠	1-751-059-11	POWER CORD W/CONNECTOR	
19	⚠	1-453-207-11	TRANSFORMER, FBT ASSY NX-2609//X4C	
20		4-064-530-01	CLIP, CHASSIS	
21	*	A-1195-138-A	P BOARD, COMPLETE	
22	*	A-1298-612-A	AV BOARD,COMPLETE	
23	⚠	8-598-430-00	TUNER, FSS BTF-FA401	
24	*	1-556-945-21	CABLE, P-P	
25	*	1-557-056-31	CABLE, P-P	
26	*	A-1135-949-A	B BOARD, COMPLETE	
27	*	A-1394-910-A	UV BOARD, COMPLETE	
28	*	4-052-905-01	V5/6 BRACKET	
29		8-598-414-00	ANTENNA SWITCH	
30	⚠	8-598-431-00	TUNER, FSS BTF-WA411	
31	*	A-1298-667-A	A BOARD, COMPLETE	
32		4-064-760-11	COVER, REAR	
33		1-452-885-11	MAGNET, LANDING	
34		4-062-047-01	PIECE A(110), CONV. CORRECTION	
35		3-704-372-31	HOLDER, HV	

The components identified by shading and "⚠" mark are critical for safety. Replace only with specified part number.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-2. CHASSIS (KV-35S65)

■ 7-685-648-79 SCREW +BVTP 3X12
● 4-388-477-01 SCREW +BVTP 3X16



REF.NO.		PART NO.	DESCRIPTION	REMARK
1		X-4035-598-1	BEZNET ASSY	2
2		4-046-160-11	EMBLEM (NO. 9), SONY	
3		4-058-053-11	BUTTON, MULTI	
4		4-058-054-01	BAR, OPTICAL	
5		1-504-531-11	SPEAKER (13.1X6.2CM)	
6	⚠	8-733-761-61	ITC 37GXT-A1	7-8
7	⚠	8-733-761-05	CRT 37GXT	
8	⚠	8-451-480-11	DY Y37GXA-X	
9	⚠	8-453-007-11	NA324-M	
10	*	A-1372-462-A	WA BOARD,MOUNTED	
11		4-046-765-01	SCREW, (7) TAPPING	
12	*	A-1331-843-A	C BOARD, MOUNTED	
13		4-036-329-01	SPRING (B), TENSION	
14	⚠	1-411-881-11	COIL, DEMAGNETIC	
15	⚠	1-411-882-11	COIL, DEMAGNETIC	
16	*	4-052-900-02	HOLDER, DGC	
17		4-059-585-01	TIE, CABLE	
18		4-058-052-31	COVER, REAR	
19	*	A-1316-399-A	G BOARD, COMPLETE	
20	⚠	1-751-059-11	CORD, POWER W/CONNECTOR	

REF.NO.		PART NO.	DESCRIPTION	REMARK
21	⚠	X-4034-797-1	TRANSFORMER, FBT ASSY NX-3005//J1C	
22	*	A-1298-612-A	AV BOARD, COMPLETE	
23	⚠	8-598-430-00	TUNER, FSS BTF-FA401	
24	*	1-556-945-21	CABLE, P-P	
25	*	1-557-056-31	CABLE, P-P	
26	*	A-1135-949-A	B BOARD, COMPLETE	
27	*	A-1394-910-A	UV BOARD, COMPLETE	
28		8-598-414-00	ANTENNA SWITCH	
29	*	4-052-905-01	V5/6 BRACKET	
30	⚠	8-598-431-00	TUNER, FSS BTF-WA411	
31	*	A-1195-138-A	P BOARD, COMPLETE	
32	*	A-1298-666-A	A BOARD, COMPLETE	
33	*	A-1372-523-A	HV BOARD, COMPLETE	
34	*	A-1372-507-A	HS BOARD, COMPLETE	
35		3-704-372-31	HOLDER, HV	

SECTION 8
ELECTRICAL PARTS LIST

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A BOARD COMMON PARTS LIST: Parts common to all models listed in this manual..... 57

A BOARD VARIANT PARTS LIST: Parts that belong only to the model specified..... 64

Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) on the A board schematic or by the word "variant" on the common parts list.

AV BOARD COMPLETE PARTS LIST (All Models) 65

B BOARD COMPLETE PARTS LIST (All Models) 65

C BOARD COMPLETE PARTS LIST (All Models) 67

G BOARD COMPLETE PARTS LIST (All Models) 68

HS BOARD COMPLETE PARTS LIST (All Models) 70

HV BOARD COMPLETE PARTS LIST (KV-35S65 only) 70

P BOARD COMPLETE PARTS LIST (All Models) 71

UV BOARD COMPLETE PARTS LIST (All Models) 72

WA BOARD COMPLETE PARTS LIST (KV-35S65 only) 74

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SECTION 8
ELECTRICAL PARTS LIST

Note:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF = µF

INDUCTORS
- UH = µH, MMH = mH

When indicating parts by reference number, please include the board name.

A

*** A-1298-667-A A BOARD, COMPLETE (KV-32S65 only)**
*** A-1298-666-A A BOARD, COMPLETE (KV-35S65 only)**

4-382-854-11 SCREW (M3X10), P, S (+)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C001	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C003	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C005	1-126-960-11	ELECT	1MF	20%	50V
C009	1-126-967-11	ELECT	47MF	20%	50V
C010	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C012	1-216-033-00	RES, CHIP	220	5%	1/10W
C013	1-216-121-91	RES, CHIP	1M	5%	1/10W
C014	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C023	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C028	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C029	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C030	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C035	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C036	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C037	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C038	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C039	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C040	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C051	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C053	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C056	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C061	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C062	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C063	1-126-935-11	ELECT	470MF	20%	16V
C069		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C070	1-126-967-11	ELECT	47MF	20%	50V
C071	1-164-096-11	CERAMIC CHIP	0.01MF		50V
C072	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C075	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C353	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C354	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C355	1-126-959-11	ELECT	0.47MF	20%	50V
C356	1-126-963-11	ELECT	4.7MF	20%	50V
C357	1-126-959-11	ELECT	0.47MF	20%	50V
C358	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C359	1-126-933-11	ELECT	100MF	20%	16V
C363	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C364	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C365	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C366	1-130-495-00	FILM	0.1MF	5%	50V
C367	1-130-495-00	FILM	0.1MF	5%	50V
C368	1-130-495-00	FILM	0.1MF	5%	50V
C369	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C370		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C371	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C372	1-126-959-11	ELECT	0.47MF	20%	50V
C373	1-126-960-11	ELECT	1MF	20%	50V
C376	1-126-964-11	ELECT	10MF	20%	50V
C377	1-130-495-00	FILM	0.1MF	5%	50V
C378	1-130-495-00	FILM	0.1MF	5%	50V
C379	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C380	1-126-935-11	ELECT	470MF	20%	16V
C381	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C383	1-130-495-00	FILM	0.1MF	5%	50V
C385	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C386	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C387	1-126-961-11	ELECT	2.2MF	20%	50V
C388	1-126-959-11	ELECT	0.47MF	20%	50V
C390	1-126-960-11	ELECT	1MF	20%	50V
C391	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C392	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C461	1-126-933-11	ELECT	100MF	20%	16V
C462	1-126-961-11	ELECT	2.2MF	20%	50V
C463	1-126-961-11	ELECT	2.2MF	20%	50V
C464	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C466	1-104-666-11	ELECT	220MF	20%	25V

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

COMMON PARTS LIST A

REF.NO.		PART NO.	DESCRIPTION			REMARK
C467		1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C468		1-104-664-11	ELECT	47MF	20%	25V
C470		1-126-961-11	ELECT	2.2MF	20%	50V
C471		1-104-666-11	ELECT	220MF	20%	25V
C472		1-136-173-00	FILM	0.47MF	5%	50V
C473		1-136-169-00	FILM	0.22MF	5%	50V
C474		1-126-942-61	ELECT	1000MF	20%	25V
C475		1-136-169-00	FILM	0.22MF	5%	50V
C476		1-126-942-61	ELECT	1000MF	20%	25V
C477		1-126-942-61	ELECT	1000MF	20%	25V
C501		1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C502		1-126-959-11	ELECT	0.47MF	20%	50V
C503		1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C504		1-102-212-00	CERAMIC CHIP	820PF	10%	500V
C505		1-102-002-00	CERAMIC CHIP	680PF	10%	500V
C506		1-106-383-00	MYLAR	0.047MF	10%	200V
C507	⚠	1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C508		1-102-244-00	CERAMIC CHIP	220PF	10%	500V
C509		1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C510		1-137-150-11	MYLAR	0.01MF	10%	100V
C511	⚠	1-115-460-11	FILM	0.022MF	3%	1.2KV
C513			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C514			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C515		1-106-343-00	MYLAR	0.001MF	10%	100V
C516		1-115-461-11	FILM	2MF	5%	200V
C517		1-107-649-11	ELECT	2.2MF	20%	250V
C518		1-106-395-00	MYLAR	0.15MF	10%	200V
C519		1-162-815-11	CERAMIC CHIP	47PF	5%	500V
C520			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C521			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C522		1-126-960-11	ELECT	1MF	20%	50V
C525		1-102-244-00	CERAMIC CHIP	220PF	10%	500V
C526		1-107-662-11	ELECT	22MF	20%	250V
C527		1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C528		1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C529		1-128-551-11	ELECT	22MF	20%	25V
C530		1-137-366-11	FILM	0.0022MF	5%	50V
C531		1-126-965-11	ELECT	22MF	20%	50V
C532		1-126-965-11	ELECT	22MF	20%	50V
C537			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C539			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C540		1-123-024-21	ELECT	33MF		160V
C541		1-128-560-11	ELECT	22MF	20%	100V
C542			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
C545		1-106-387-00	MYLAR	0.068MF	10%	200V
C546		1-106-343-00	MYLAR	0.001MF	10%	100V
C547		1-106-343-00	MYLAR	0.001MF	10%	100V
C551		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C561		1-126-967-11	ELECT	47MF	20%	50V

REF.NO.		PART NO.	DESCRIPTION			REMARK
C563		1-126-934-11	ELECT	220MF	20%	10V
C564		1-126-960-11	ELECT	1MF	20%	50V
C565		1-126-969-11	ELECT	220MF	20%	50V
C566		1-126-964-11	ELECT	10MF	20%	50V
C568		1-136-169-00	FILM	0.22MF	5%	50V
C571		1-104-664-11	ELECT	47MF	20%	25V
C1002		1-126-964-11	ELECT	10MF	20%	50V
C1101		1-126-768-11	ELECT	2200MF	20%	16V
C1103		1-126-965-11	ELECT	22MF	20%	50V
C1104		1-104-664-11	ELECT	47MF	20%	16V
C1105		1-104-664-11	ELECT	47MF	20%	16V
C1106		1-126-964-11	ELECT	10MF	20%	50V
C1107		1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1108		1-126-960-11	ELECT	1MF	20%	50V
C1109		1-126-964-11	ELECT	10MF	20%	50V
C1110		1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C1111		1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C1112		1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C1351		1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1352		1-126-933-11	ELECT	100MF	20%	16V
C1353		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1354		1-216-295-91	SHORT			
C1501			VARIANT (SEE VARIANT PARTS LIST ON P. 64)			

CONNECTOR

CN106	*	1-508-784-00	PIN, CONNECTOR (5MM PITCH)	1P
CN270		1-573-298-11	CONNECTOR, BOARD TO BOARD	20P
CN271		1-573-978-21	CONNECTOR, BOARD TO BOARD	11P
CN351	*	1-564-509-11	PLUG, CONNECTOR	6P
CN461	*	1-564-507-11	PLUG, CONNECTOR	4P
CN501	*	1-580-798-11	CONNECTOR PIN (DY)	6P
CN503	*	1-564-508-11	PLUG, CONNECTOR	5P
CN1001	*	1-564-512-11	PLUG, CONNECTOR	9P
CN1101		1-573-298-11	CONNECTOR, BOARD TO BOARD	20P
CN1641	*	1-564-515-11	PLUG, CONNECTOR	12P
CN1941			VARIANT (SEE VARIANT PARTS LIST ON P. 64)	
CN3001		1-573-298-11	CONNECTOR, BOARD TO BOARD	20P

DIODE

D001	8-719-991-33	DIODE 1SS133T-77
D002	8-719-109-89	DIODE RD5.6ESB2
D003	8-719-991-33	DIODE 1SS133T-77
D004	8-719-110-17	DIODE RD10ESB2
D011	8-719-983-20	DIODE MTZJ-T-77-4.3C
D013	8-719-991-33	DIODE 1SS133T-77
D014	8-719-991-33	DIODE 1SS133T-77
D015	8-719-991-33	DIODE 1SS133T-77
D353	8-719-991-33	DIODE 1SS133T-77
D356	8-719-991-33	DIODE 1SS133T-77

A COMMON PARTS LIST

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D360	8-719-110-17	DIODE RD10ESB2	
D362	8-719-991-33	DIODE 1SS133T-77	
D368	8-719-991-33	DIODE 1SS133T-77	
D462	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-109-89	DIODE RD5.6ESB2	
D502	8-719-945-80	DIODE ERC06-15S	
D503	8-719-945-80	DIODE ERC06-15S	
D504	8-719-900-26	DIODE ERD29-08J	
D505	8-719-908-03	DIODE GP08D	
D506	8-719-908-03	DIODE GP08D	
D507	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D516	8-719-991-33	DIODE 1SS133T-77	
D518	8-719-991-33	DIODE 1SS133T-77	
D519 ⚠	8-719-302-43	DIODE EL1Z	
D520	8-719-991-33	DIODE 1SS133T-77	
D521	8-719-921-63	DIODE MTZJ-7.5B	
D530	8-719-979-85	DIODE EGP20G	
D531	8-719-979-85	DIODE EGP20G	
D534	8-719-302-43	DIODE EL1Z	
D561	8-719-908-03	DIODE GP08D	
D562	8-719-991-33	DIODE 1SS133T-77	
D1102	8-719-982-24	DIODE MTZJ-33A	
D1103	8-719-109-89	DIODE RD5.6ESB2	
D1263	8-719-110-17	DIODE RD10ESB2	
D1264	8-719-110-17	DIODE RD10ESB2	
	FERRITE BEAD		
FB501	1-410-396-41	FERRITE 0.45UH	
FB502	1-410-397-21	FERRITE 1.1UH	
FB503	1-410-397-21	FERRITE 1.1UH	
	IC		
IC001	8-752-897-18	IC CXP85840A-011S	
IC002	8-759-535-42	IC MB90F574PFV-G-123-BND	
IC351	8-752-082-73	IC CXA2095S	
IC461	8-759-980-43	IC TDA2009A	
IC501	8-759-700-07	IC NJM2903M	
IC561	8-759-980-58	IC TDA8172	
	CHIP CONDUCTOR		
JR001	1-216-295-91	SHORT	
JR464	1-216-295-91	SHORT	
JR501	1-216-295-91	SHORT	
JR1417	1-216-295-91	SHORT	
JR1454	1-216-295-91	SHORT	
JR1456	1-216-295-91	SHORT	
JR1801	1-216-295-91	SHORT	
JR1802	1-216-295-91	SHORT	
JR1803	1-216-295-91	SHORT	
JR1804	1-216-295-91	SHORT	
	COIL		
L001	1-408-421-00	INDUCTOR 100UH	
L002	1-408-421-00	INDUCTOR 100UH	
L003	1-410-470-11	INDUCTOR 10UH	
L004	1-410-470-11	INDUCTOR 10UH	
L352	1-412-537-31	INDUCTOR 100UH	
L461	1-408-602-31	INDUCTOR 8.2UH	
L501 ⚠	1-411-976-11	COIL, HORIZONTAL LINEARITY	
L502	1-412-552-11	INDUCTOR 2.2MMH	
L503	1-406-677-11	INDUCTOR	
L511	1-406-607-41	INDUCTOR	
L517	1-412-552-11	INDUCTOR 2.2MMH	
L541		VARIANT (SEE VARIANT PARTS LIST ON P. 64)	
L1101	1-408-421-00	INDUCTOR 100UH	
L1102	1-410-470-11	INDUCTOR 10UH	
	IC LINK		
PS461 ⚠	1-532-984-11	LINK, IC 2A/90V	
	TRANSISTOR		
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-216-22	TRANSISTOR SA1162-G	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q354	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q357	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q358	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q461	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q462	8-729-216-22	TRANSISTOR 2SA1162-G	
Q501	8-729-140-50	TRANSISTOR 2SC3209LK	
Q502 ⚠	8-729-035-75	TRANSISTOR 2SC5148(LBSONY)	
Q511 ⚠	8-729-422-27	TRANSISTOR 2SD601A-Q	

Note:

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Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

COMMON PARTS LIST

A

REF.NO.		PART NO.	DESCRIPTION			REMARK
Q512	⚠	8-729-809-29	TRANSISTOR 2SC4159-E			
Q551		8-729-216-22	TRANSISTOR 2SA1162-G			
Q552		8-729-422-27	TRANSISTOR 2SD601A-Q			
Q561		8-729-422-27	TRANSISTOR 2SD601A-Q			
Q562		8-729-422-27	TRANSISTOR 2SD601A-Q			
Q563		8-729-105-08	TRANSISTOR 2SA1330-06			
Q1102		8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q1103		8-729-422-27	TRANSISTOR 2SD601A-Q			

RESISTOR

R001	1-216-045-00	RES, CHIP	680	5%	1/10W
R002	1-247-815-91	CARBON	220	5%	1/4W
R003	1-216-097-91	RES, CHIP	100K	5%	1/10W
R004	1-216-121-91	RES, CHIP	1M	5%	1/10W
R006	1-247-815-91	CARBON	220	5%	1/4W
R007	1-216-073-00	RES, CHIP	10K	5%	1/10W
R008	1-247-815-91	CARBON	220	5%	1/4W
R009	1-216-073-00	RES, CHIP	10K	5%	1/10W
R010	1-216-037-00	RES, CHIP	330	5%	1/10W
R011	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R012	1-216-033-00	RES, CHIP	220	5%	1/10W
R013	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R014	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R015	1-216-073-00	RES, CHIP	10K	5%	1/10W
R016	1-216-073-00	RES, CHIP	10K	5%	1/10W
R019	1-249-425-11	CARBON	4.7K	5%	1/4W
R020	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R021	1-216-033-00	RES, CHIP	220	5%	1/10W
R022	1-249-429-11	CARBON	10K	5%	1/4W
R023	1-216-089-91	RES, CHIP	47K	5%	1/10W
R024	1-249-381-11	CARBON	1	5%	1/4W F
R025	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V
R026	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R027	1-249-389-11	CARBON	4.7	5%	1/4W F
R028	1-249-417-11	CARBON	1K	5%	1/4W
R029	1-216-025-91	RES, CHIP	100	5%	1/10W
R030	1-249-425-11	CARBON	4.7K	5%	1/4W
R031	1-247-815-91	CARBON	220	5%	1/4W
R032	1-247-815-91	CARBON	220	5%	1/4W
R036	1-216-049-91	RES, CHIP	1K	5%	1/10W
R037	1-216-049-91	RES, CHIP	1K	5%	1/10W
R038	1-216-049-91	RES, CHIP	1K	5%	1/10W
R039	1-247-807-31	CARBON	100	5%	1/4W
R040	1-247-815-91	CARBON	220	5%	1/4W
R041	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R042	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R044	1-216-033-00	RES, CHIP	220	5%	1/10W
R045	1-247-815-91	CARBON	220	5%	1/4W
R046	1-247-815-91	CARBON	220	5%	1/4W
R047	1-249-417-11	CARBON	1K	5%	1/4W
R048	1-249-417-11	CARBON	1K	5%	1/4W
R049	1-249-417-11	CARBON	1K	5%	1/4W
R052	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R053	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R054	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R055	1-216-097-91	RES, CHIP	100K	5%	1/10W
R056	1-216-033-00	RES, CHIP	220	5%	1/10W
R057	1-249-417-11	CARBON	1K	5%	1/4W
R058	1-216-033-00	RES, CHIP	220	5%	1/10W
R064	1-216-033-00	RES, CHIP	220	5%	1/10W
R065	1-216-033-00	RES, CHIP	220	5%	1/10W
R066	1-216-033-00	RES, CHIP	220	5%	1/10W
R067	1-216-041-00	RES, CHIP	470	5%	1/10W
R068	1-247-815-91	CARBON	220	5%	1/4W
R069		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R070	1-249-421-11	CARBON	2.2K	5%	1/4W
R071	1-247-815-91	CARBON	220	5%	1/4W
R072	1-216-033-00	RES, CHIP	220	5%	1/10W
R073	1-216-033-00	RES, CHIP	220	5%	1/10W
R074	1-216-033-00	RES, CHIP	220	5%	1/10W
R075	1-216-033-00	RES, CHIP	220	5%	1/10W
R076	1-216-033-00	RES, CHIP	220	5%	1/10W
R077	1-216-033-00	RES, CHIP	220	5%	1/10W
R078	1-249-417-11	CARBON	1K	5%	1/4W
R079	1-216-033-00	RES, CHIP	220	5%	1/10W
R080	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R081	1-216-025-91	RES, CHIP	100	5%	1/10W
R082	1-216-025-91	RES, CHIP	100	5%	1/10W
R083	1-249-429-11	CARBON	10K	5%	1/4W
R084	1-216-049-91	RES, CHIP	1K	5%	1/10W
R085		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R087	1-247-815-91	CARBON	220	5%	1/4W
R090	1-216-033-00	RES, CHIP	220	5%	1/10W
R092	1-249-429-11	CARBON	10K	5%	1/4W
R093	1-249-387-11	CARBON	3.3	5%	1/4W F
R094	1-249-381-11	CARBON	1	5%	1/4W F
R096	1-216-347-11	METAL OXIDE	0.68	5%	1W F
R097	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R099	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R101	1-249-381-11	CARBON	1	5%	1/4W F
R131	1-216-035-00	RES, CHIP	270	5%	1/10W
R132	1-216-115-00	RES, CHIP	560K	5%	1/10W
R133	1-216-039-00	RES, CHIP	390	5%	1/10W
R135	1-216-073-00	RES, CHIP	10K	5%	1/10W
R136	1-216-073-00	RES, CHIP	10K	5%	1/10W
R137	1-216-049-91	RES, CHIP	1K	5%	1/10W
R353	1-208-788-11	RES, CHIP	1.8K	0.50%	1/10W
R354	1-216-077-00	RES, CHIP	15K	5%	1/10W

A COMMON PARTS LIST

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R355	1-216-033-00	RES, CHIP	220	5%	1/10W
R356	1-216-033-00	RES, CHIP	220	5%	1/10W
R358	1-247-815-91	CARBON	220	5%	1/4W
R359	1-247-815-91	CARBON	220	5%	1/4W
R360	1-247-815-91	CARBON	220	5%	1/4W
R361	1-216-025-91	RES, CHIP	100	5%	1/10W
R362	1-216-025-91	RES, CHIP	100	5%	1/10W
R363	1-216-025-91	RES, CHIP	100	5%	1/10W
R364	1-216-101-00	RES, CHIP	150K	5%	1/10W
R365		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R366	1-216-089-91	RES, CHIP	47K	5%	1/10W
R367	1-216-097-91	RES, CHIP	100K	5%	1/10W
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-216-097-91	RES, CHIP	100K	5%	1/10W
R370	1-249-417-11	CARBON	1K	5%	1/4W
R371	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R372	1-216-113-00	RES, CHIP	470K	5%	1/10W
R373	1-216-073-00	RES, CHIP	10K	5%	1/10W
R374		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R375	1-216-025-91	RES, CHIP	100	5%	1/10W
R376	1-216-073-00	RES, CHIP	10K	5%	1/10W
R379	1-216-033-00	RES, CHIP	220	5%	1/10W
R380	1-247-815-91	CARBON	220	5%	1/4W
R381	1-247-815-91	CARBON	220	5%	1/4W
R382	1-216-033-00	RES, CHIP	220	5%	1/10W
R383	1-216-049-91	RES, CHIP	1K	5%	1/10W
R384	1-216-109-00	RES, CHIP	330K	5%	1/10W
R385	1-249-422-11	CARBON	2.7K	5%	1/4W
R386	1-216-049-91	RES, CHIP	1K	5%	1/10W
R387	1-216-049-91	RES, CHIP	1K	5%	1/10W
R388	1-216-089-91	RES, CHIP	47K	5%	1/10W
R389	1-216-067-00	RES, CHIP	5.6K	5%	1/10W
R390	1-216-035-00	RES, CHIP	270	5%	1/10W
R391	1-208-810-11	RES, CHIP	15K	0.50%	1/10W
R392	1-216-025-91	RES, CHIP	100	5%	1/10W
R393	1-216-043-91	RES, CHIP	560	5%	1/10W
R394	1-216-059-00	RES, CHIP	2.7K	5%	1/10W
R395	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R396	1-249-417-11	CARBON	1K	5%	1/4W
R397	1-249-425-11	CARBON	4.7K	5%	1/4W
R461	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R462	1-216-089-91	RES, CHIP	47K	5%	1/10W
R463	1-249-435-11	CARBON	33K	5%	1/4W
R464	1-216-097-91	RES, CHIP	100K	5%	1/10W
R465	1-249-413-11	CARBON	470	5%	1/4W
R466	1-249-388-11	CARBON	3.9	5%	1/4W F
R467	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R469	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R470	1-216-077-00	RES, CHIP	15K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R471	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R472	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R473	1-249-398-11	CARBON	27	5%	1/4W
R474	1-216-077-00	RES, CHIP	15K	5%	1/10W
R475	1-249-430-11	CARBON	12K	5%	1/4W
R476	1-249-430-11	CARBON	12K	5%	1/4W
R477	1-249-398-11	CARBON	27	5%	1/4W
R478	1-249-418-11	CARBON	1.2K	5%	1/4W F
R479	1-249-418-11	CARBON	1.2K	5%	1/4W F
R480	1-249-385-11	CARBON	2.2	5%	1/4W F
R481	1-249-385-11	CARBON	2.2	5%	1/4W F
R482	1-249-421-11	CARBON	2.2K	5%	1/4W
R483	1-249-421-11	CARBON	2.2K	5%	1/4W
R501	1-216-037-00	RES, CHIP	330	5%	1/10W
R502	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R503	1-249-426-11	CARBON	5.6K	5%	1/4W F
R504 ⚠	1-215-915-11	METAL OXIDE	470	5%	3W F
R505	1-249-431-11	CARBON	15K	5%	1/4W
R506	1-215-861-00	METAL OXIDE	47	5%	1W F
R507	1-249-401-11	CARBON	47	5%	1/4W
R508	1-249-427-11	CARBON	6.8K	5%	1/4W
R509	1-247-750-11	CARBON	680	5%	1/2W F
R510 ⚠	1-215-860-11	METAL OXIDE	33	5%	1W F
R511		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R512 ⚠	1-215-886-11	METAL OXIDE	100	5%	2W F
R515		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R516	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R517	1-249-415-11	CARBON	680	5%	1/4W
R518	1-216-073-00	RES, CHIP	10K	5%	1/10W
R519	1-249-411-11	CARBON	330	5%	1/4W
R521 ⚠	1-215-915-11	METAL OXIDE	470	5%	3W F
R523		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R524	1-249-429-11	CARBON	10K	5%	1/4W
R525	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R528	1-216-081-00	RES, CHIP	22K	5%	1/10W
R529		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
⋈ R530 ⚠	1-208-808-11	RES, CHIP	12K	0.50%	1/10W
R531		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R532	1-208-760-11	RES, CHIP	120	0.50%	1/10W
R533		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R535		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R536 ⚠	1-249-2377-11	CARBON	0.47	5%	1/4W F
R537 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W F
R538	1-247-887-00	CARBON	220K	5%	1/4W
R541		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R542		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R543	1-249-377-11	CARBON	0.47	5%	1/4W F
R546		VARIANT (SEE VARIANT PARTS LIST ON P. 64)			
R547	1-215-457-00	METAL	33K	1%	1/4W

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

COMMON PARTS LIST A

REF.NO.		PART NO.	DESCRIPTION			REMARK
R549		1-215-437-00	METAL	4.7K	1%	1/4W
R550	⚠	1-249-377-11	CARBON	0.47	5%	1/4W F
R551	⚠	1-215-873-00	METAL OXIDE	4.7K	5%	1W F
R552		1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R553	⚠	1-249-377-11	CARBON	0.47	5%	1/4W F
R554		1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R561		1-216-073-00	RES, CHIP	10K	5%	1/10W
R563	⚠	1-216-351-00	METAL OXIDE	1.5	5%	1W F
R564		1-249-393-11	CARBON	10	5%	1/4W
R565	⚠	1-215-890-11	METAL OXIDE	470	5%	2W F
R566		1-216-073-00	RES, CHIP	10K	5%	1/10W
R567	⚠	1-249-385-11	CARBON	2.2	5%	1/4W F
R568		1-216-073-00	RES, CHIP	10K	5%	1/10W
R569		1-216-073-00	RES, CHIP	10K	5%	1/10W
R570		1-216-097-91	RES, CHIP	100K	5%	1/10W
R571		1-216-081-00	RES, CHIP	22K	5%	1/10W
R572		1-216-081-00	RES, CHIP	22K	5%	1/10W
R573		1-216-097-91	RES, CHIP	100K	5%	1/10W
R574	⚠	1-216-365-00	METAL OXIDE	0.47	5%	2W F
R575		1-216-113-00	RES, CHIP	470K	5%	1/10W
R576		1-216-073-00	RES, CHIP	10K	5%	1/10W
R577		1-216-097-91	RES, CHIP	100K	5%	1/10W
R578		1-208-784-11	RES, CHIP	1.2K	0.50%	1/10W
R579		1-208-842-11	RES, CHIP	330K	0.50%	1/10W
R580		1-249-441-11	CARBON	100K	5%	1/4W
R1101		1-216-049-91	RES, CHIP	1K	5%	1/10W
R1102		1-215-900-11	METAL OXIDE	22K	5%	2W F
R1103		1-216-051-00	RES, CHIP	1.2K	5%	1/10W
R1104		1-216-083-00	RES, CHIP	27K	5%	1/10W
R1105		1-216-689-11	RES, CHIP	39K	5%	1/10W
R1106		1-216-049-91	RES, CHIP	1K	5%	1/10W
R1107		1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1108		1-216-073-00	RES, CHIP	10K	5%	1/10W
R1109		1-216-019-00	RES, CHIP	56	5%	1/10W
R1110		1-216-019-00	RES, CHIP	56	5%	1/10W
R1111		1-216-019-00	RES, CHIP	56	5%	1/10W
R1115		1-216-045-00	RES, CHIP	680	5%	1/10W
R1117		1-249-425-11	CARBON	4.7K	5%	1/4W
R1118		1-249-425-11	CARBON	4.7K	5%	1/4W
R1120		1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1121		1-216-035-00	RES, CHIP	270	5%	1/10W
R1122		1-216-115-00	RES, CHIP	560K	5%	1/10W
R1123		1-216-039-00	RES, CHIP	390	5%	1/10W
R1125		1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1126		1-216-035-00	RES, CHIP	270	5%	1/10W
R1127		1-216-115-00	RES, CHIP	560K	5%	1/10W
R1128		1-216-039-00	RES, CHIP	390	5%	1/10W
R1130		1-216-057-00	RES, CHIP	2.2K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1351	1-247-815-91	CARBON	220	5%	1/4W
R1352	1-247-815-91	CARBON	220	5%	1/4W
R1353	1-247-815-91	CARBON	220	5%	1/4W
R1354	1-216-033-00	RES, CHIP	220	5%	1/10W
R1355	1-216-025-91	RES, CHIP	100	5%	1/10W
R1356	1-216-025-91	RES, CHIP	100	5%	1/10W
R1357	1-216-025-91	RES, CHIP	100	5%	1/10W
R1358	1-247-807-31	CARBON	100	5%	1/4W
R1359	1-216-025-91	RES, CHIP	100	5%	1/10W
R1360	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R1361	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1362	1-216-295-91	SHORT			

SWITCH

S501	1-572-707-11	SWITCH, LEVER	

TRANSFORMER

T501	1-437-210-11	TRANSFORMER, HORIZONTAL DRIVE	
T502		VARIANT (SEE VARIANT PARTS LIST ON P. 64)	
T503		VARIANT (SEE VARIANT PARTS LIST ON P. 64)	
T504		VARIANT (SEE VARIANT PARTS LIST ON P. 64)	

TUNER

TU102 ⚠	8-598-431-00	TUNER, FSS	BTF-WA411

CRYSTAL

X001	1-578-774-11	VIBRATOR, CRYSTAL
X353	1-567-505-11	OSCILLATOR, CRYSTAL
X354	1-577-611-11	OSCILLATOR, CERAMIC CHIP

A VARIANT PARTS LIST

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The parts in this column belong to the following model(s) only:

KV-32S65

REF.NO.		PART NO.	DESCRIPTION			REMARK
			CAPACITOR			
C370		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C513	⚠	1-130-895-00	FILM	5.6MF	5%	400V
C514	⚠	1-104-844-11	FILM	0.62MF	5%	200V
C520		1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C521		1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C537		1-126-941-11	ELECT	470MF	20%	25V
C539	⚠	1-126-935-11	ELECT	470MF	20%	16V
C1501		1-115-462-11	FILM	0.12MF	5%	200V
			CONNECTOR			
CN1941*		1-564-508-11	PLUG, CONNECTOR		5P	
			RESISTOR			
R365		1-216-101-00	RES, CHIP	150K	5%	1/10W
R374		1-216-125-00	RES, CHIP	1.5M	5%	1/10W
R511	⚠	1-215-885-00	METAL OXIDE	68	5%	2W
R515		1-216-083-00	RES, CHIP	27K	5%	1/10W
R523		1-216-073-00	RES, CHIP	10K	5%	1/10W
R529		1-208-814-11	RES, CHIP	22K	0.50%	1/10W
⋈ R531	⚠	1-208-826-11	RES, CHIP	68K	0.50%	1/10W
R533	⚠	1-215-902-11	METAL OXIDE	47K	5%	1W
R535		1-216-101-00	RES, CHIP	150K	5%	1/10W
R546		1-215-453-00	METAL OXIDE	22K	1%	1/4W
			TRANSFORMER			
T502	⚠	1-424-545-11	TRANSFORMER FERRITE (PMT)			
T503	⚠	1-453-207-11	FLYBACK TRANSFORMER ASSY, NX-2609//X4C			

The parts in this column belong to the following model(s) only:

KV-35S65

REF.NO.		PART NO.	DESCRIPTION			REMARK
			CAPACITOR			
C069		1-126-964-11	ELECT	10MF	20%	50V
C370		1-163-035-00	CERAMIC CHIP	0.047MF		50V
C513	⚠	1-129-720-00	FILM	0.033MF	5%	630V
C514	⚠	1-136-540-11	FILM	0.82MF	5%	200V
C520		1-101-821-00	CERAMIC CHIP	0.0022MF		500V
C521		1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C537		1-126-942-61	ELECT	1000MF	20%	25V
C539	⚠	1-126-942-61	ELECT	1000MF	20%	25V
C542		1-106-383-00	MYLAR	0.047MF	10%	200V
			CONNECTOR			
CN1941		1-564-511-11	PLUG, CONNECTOR		8P	
			COIL			
L541		1-406-677-11	INDUCTOR			
			RESISTOR			
R069		1-216-073-00	RES, CHIP	10K	5%	1/10W
R085		1-216-073-00	RES, CHIP	10K	5%	1/10W
R365		1-216-097-91	RES, CHIP	100K	5%	1/10W
R374		1-216-121-91	RES, CHIP	1M	5%	1/10W
R511	⚠	1-215-886-11	METAL OXIDE	100	5%	2W
R515		1-216-077-00	RES, CHIP	15K	5%	1/10W
R523		1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R529		1-208-812-11	RES, CHIP	18K	0.50%	1/10W
⋈ R531	⚠	1-208-838-11	RES, CHIP	220K	0.50%	1/10W
R533	⚠	1-215-878-00	METAL OXIDE	33K	5%	1W
R535		1-216-103-00	RES, CHIP	180K	5%	1/10W
R541	⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R542	⚠	1-249-397-11	CARBON	22	5%	1/4W
R546		1-215-451-00	METAL OXIDE	18K	1%	1/4W
			TRANSFORMER			
T502	⚠	1-429-408-11	TRANSFORMER FERRITE (PMT)			
T503	⚠	X-4034-797-1	FLYBACK TRANSFORMER ASSY, NX-3005//J1C			
T504		1-413-059-00	TRANSFORMER FERRITE (DFT)			

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

COMPLETE PARTS LIST AV B

AV

*** A-1298-612-A AV BOARD, COMPLETE**

CAPACITOR

REF.NO.		PART NO.	DESCRIPTION			
C101		1-126-960-11	ELECT	1MF	20%	50V
C102		1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C104		1-126-964-11	ELECT	10MF	20%	50V
C106		1-104-664-11	ELECT	47MF	20%	25V
C108		1-126-933-11	ELECT	100MF	20%	16V
C109		1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C110		1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C111		1-126-960-11	ELECT	1MF	20%	50V
C113		1-126-934-11	ELECT	220MF	20%	16V
C1904		1-102-129-00	CERAMIC CHIP	0.01MF	10%	50V
C1905		1-126-964-11	ELECT	10MF	20%	50V
C1906		1-102-129-00	CERAMIC CHIP	0.01MF	10%	50V
C1907		1-126-964-11	ELECT	10MF	20%	50V
C1908		1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1909		1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V

CONNECTOR

CN101		1-573-301-21	CONNECTOR, BOARD TO BOARD	20P
CN102		1-573-979-21	CONNECTOR, BOARD TO BOARD	11P
CN103	*	1-564-507-11	PLUG, CONNECTOR	4P
CN106	*	1-564-506-11	PLUG, CONNECTOR	3P

DIODE

D101	8-719-109-89	DIODE RD5.6ESB2
D103	8-719-991-33	DIODE 1SS133T-77
D104	8-719-991-33	DIODE 1SS133T-77
D105	8-719-991-33	DIODE 1SS133T-77
D106	8-719-991-33	DIODE 1SS133T-77

IC

IC1901	8-752-058-68	IC CXA1315M
IC1902	8-759-470-63	IC NJM2145M-TE2

CHIP CONDUCTOR

JR102	1-216-295-91	SHORT
JR103	1-216-295-91	SHORT
JR105	1-216-295-91	SHORT

COIL

L102	1-410-470-11	INDUCTOR	10UH
L105	1-408-421-00	INDUCTOR	100UH

TRANSISTOR

Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q103	8-729-216-22	TRANSISTOR 2SA1162-G
Q104	8-729-216-22	TRANSISTOR 2SA1162-G
Q105	8-729-216-22	TRANSISTOR 2SA1162-G
Q1901	8-729-216-22	TRANSISTOR 2SA1162-G
Q1902	8-729-216-22	TRANSISTOR 2SA1162-G

RESISTOR

R101	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R102	1-216-083-00	RES, CHIP	27K	5%	1/10W
R103	1-216-689-11	RES, CHIP	39K	5%	1/10W
R104	1-216-045-00	RES, CHIP	680	5%	1/10W
R106	1-216-081-00	RES, CHIP	22K	5%	1/10W
R107	1-216-081-00	RES, CHIP	22K	5%	1/10W
R108	1-216-081-00	RES, CHIP	22K	5%	1/10W
R109	1-216-081-00	RES, CHIP	22K	5%	1/10W
R112	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R113	1-216-097-91	RES, CHIP	100K	5%	1/10W
R114	1-216-121-91	RES, CHIP	1M	5%	1/10W
R115	1-216-073-00	RES, CHIP	10K	5%	1/10W
R116	1-216-073-00	RES, CHIP	10K	5%	1/10W
R117	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R118	1-216-295-91	SHORT			
R121	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1904	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1905	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2904	1-216-033-00	RES, CHIP	220	5%	1/10W
R2905	1-216-033-00	RES, CHIP	220	5%	1/10W
R2909	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2910	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2912	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2913	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2914	1-216-073-00	RES, CHIP	10K	5%	1/10W

TUNER

TU101 ⚠	8-598-430-00	TUNER, FSS BTF-FA401	

B

*** A-1135-949-A B BOARD, COMPLETE**

CAPACITOR

C3501	1-104-664-11	ELECT	47MF	20%	25V
C3502	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3503	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3504	1-126-964-11	ELECT	10MF	20%	50V
C3505	1-163-131-00	CERAMIC CHIP	390PF	5%	50V

B COMPLETE PARTS LIST

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3506	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3507	1-126-963-11	ELECT	4.7MF	20%	50V
C3508	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3509	1-126-961-11	ELECT	2.2MF	20%	50V
C3510	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C3511	1-126-964-11	ELECT	10MF	20%	50V
C3512	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3513	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C3514	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C3515	1-126-963-11	E;ECT	4/7MF	20%	50V
C3516	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C3517	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3518	1-126-941-11	ELECT	470MF	20%	25V
C3519	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3520	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3521	1-104-664-11	ELECT	47MF	20%	25V
C3522	1-126-964-11	ELECT	10MF	20%	50V
C3523	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3524	1-104-664-11	ELECT	47MF	20%	25V
C3525	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3526	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3527	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3528	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C3529	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3530	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3532	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3533	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3534	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3535	1-104-664-11	ELECT	47MF	20%	25V
C3536	1-126-964-11	ELECT	10MF	20%	50V
C3537	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3538	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3539	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3540	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3541	1-104-664-11	ELECT	47MF	20%	25V
C3542	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3543	1-104-664-11	ELECT	47MF	20%	25V
C3544	1-104-664-11	ELECT	47MF	20%	25V
C3545	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3548	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3549	1-126-964-11	ELECT	10MF	20%	50V
C3550	1-104-664-11	ELECT	47MF	20%	25V
C3551	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3553	1-126-941-11	ELECT	470MF	20%	25V
C3556	1-128-551-11	ELECT	22MF	20%	25V
C3557	1-163-235-11	CERAMIC CHIP	22PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
		CONNECTOR			
CN3502	1-573-978-21	CONNECTOR, BOARD TO BOARD			11P
CN3561*	1-691-616-21	CONNECTOR, BOARD TO BOARD			15P
		FILTER			
FL3501	1-239-847-11	FILTER, LOW PASS			
FL3502	1-239-847-11	FILTER, LOW PASS			
FL3503	1-239-847-11	FILTER, LOW PASS			
		IC			
IC3501	8-759-065-82	IC MM1093ND			
IC3502	8-752-385-80	IC CXD2073S			
IC3503	8-759-231-53	IC TA7805S			
		COIL			
L3501	1-410-470-11	INDUCTOR	10UH		
L3502	1-410-466-41	INDUCTOR	4.7UH		
L3503	1-410-470-11	INDUCTOR	10UH		
L3504	1-410-470-11	INDUCTOR	10UH		
L3505	1-410-470-11	INDUCTOR	10UH		
		TRANSISTOR			
Q3501	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3502	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3503	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3504	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3505	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3506	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3507	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3509	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3510	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3516	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3555	8-729-216-22	TRANSISTOR 2SA1162-G			
		RESISTOR			
R3501	1-216-091-00	RES, CHIP	56K	5%	1/10W
R3502	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3503	1-216-009-00	RES, CHIP	22	5%	1/10W
R3504	1-216-029-00	RES, CHIP	150	5%	1/10W
R3505	1-216-037-00	RES, CHIP	330	5%	1/10W
R3506	1-216-035-00	RES, CHIP	270	5%	1/10W
R3507	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3508	1-216-043-91	RES, CHIP	560	5%	1/10W
R3509	1-216-075-00	RES, CHIP	12K	5%	1/10W
R3510	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3511	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R3512	1-216-065-91	RES, CHIP	4.7K	5%	1/10W

Note:

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Note:

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COMPLETE PARTS LIST B C

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3513	1-216-041-00	RES, CHIP	470	5%	1/10W
R3514	1-216-121-91	RES, CHIP	1M	5%	1/10W
R3515	1-216-077-00	RES, CHIP	15K	5%	1/10W
R3516	1-216-037-00	RES, CHIP	330	5%	1/10W
R3517	1-216-077-00	RES, CHIP	15K	5%	1/10W
R3518	1-216-067-00	RES, CHIP	5.6K	5%	1/10W
R3520	1-208-766-11	RES, CHIP	220	0.50%	1/10W
R3521	1-208-766-11	RES, CHIP	220	0.50%	1/10W
R3522	1-208-774-11	RES, CHIP	470	0.50%	1/10W
R3523	1-208-778-11	RES, CHIP	680	0.50%	1/10W
R3524	1-208-794-11	RES, CHIP	3.3K	0.50%	1/10W
R3526	1-208-776-91	RES, CHIP	560	0.50%	1/10W
R3527	1-208-824-91	RES, CHIP	560K	0.50%	1/10W
R3529	1-216-295-91	SHORT			
R3531	1-216-295-91	SHORT			
R3534	1-216-295-91	SHORT			
R3535	1-216-295-91	SHORT			
R3536	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3537	1-216-043-91	RES, CHIP	560	5%	1/10W
R3538	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R3539	1-216-089-91	RES, CHIP	47K	5%	1/10W
R3540	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3541	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3542	1-216-041-00	RES, CHIP	470	5%	1/10W
R3543	1-216-035-00	RES, CHIP	270	5%	1/10W
R3544	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3545	1-216-043-91	RES, CHIP	560	5%	1/10W
R3546	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R3547	1-216-089-91	RES, CHIP	47K	5%	1/10W
R3548	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3549	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3550	1-208-774-11	RES, CHIP	470	0.50%	1/10W
R3551	1-208-764-11	RES, CHIP	180	0.50%	1/10W
R3565	1-216-295-91	SHORT			
R3566	1-216-025-91	RES, CHIP	100	5%	1/10W
R3568	1-216-025-91	RES, CHIP	100	5%	1/10W
R3569	1-216-041-00	RES, CHIP	470	5%	1/10W
R3578	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3579	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3580	1-216-295-91	SHORT			
R3596	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3597	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3599	1-208-774-11	RES, CHIP	470	0.50%	1/10W

CRYSTAL

X3501	1-567-505-11	OSCILLATOR, CRYSTAL	

REF.NO.	PART NO.	DESCRIPTION			REMARK

C

*** A-1331-837-A C BOARD, COMPLETE (KV-32S65 only)**
*** A-1331-843-A C BOARD, COMPLETE (KV-35S65 only)**

	4-382-854-11	SCREW (M3X10), P, SW (+)			

CAPACITOR

C1750	1-137-528-11	FILM	0.1MF	10%	250V
C1751	1-107-652-11	ELECT	10MF	20%	250V
C1790	1-102-129-00	CERAMIC CHIP	0.01MF	10%	50V
C1791	1-126-968-11	ELECT	100MF	20%	50V
C1792	1-102-108-00	CERAMIC CHIP	150PF	10%	50V
C1794	1-107-651-11	ELECT	4.7MF	20%	250V
	(KV-35S65 only)				
C1795	1-102-074-00	CERAMIC CHIP	0.001MF	10%	50V
C1799	1-162-114-00	CERAMIC CHIP	0.0047MF		2KV

CONNECTOR

CN1761 *	1-564-509-11	PLUG, CONNECTOR	6P	
CN1764 *	1-564-508-11	PLUG, CONNECTOR	5P	
CN1766	1-695-915-11	TAB (CONTACT)		

DIODE

D1790	8-719-991-33	DIODE 1SS133T-77
D1791	8-719-908-03	DIODE GP08D
D1792	8-719-908-03	DIODE GP08D
	(KV-35S65 only)	
D1793	8-719-908-03	DIODE GP08D
D1794	8-719-908-03	DIODE GP08D
D1795	8-719-908-03	DIODE GP08D

IC

IC1701	8-759-535-08	IC TDA6108Q

JACK

J1761	⚠ 1-251-388-11	SOCKET, CRT	

COIL

L1790	1-410-671-31	INDUCTOR	47UH

TRANSISTOR

Q1790	8-729-119-76	TRANSISTOR 2SA1175-HFE

C G COMPLETE PARTS LIST

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REF.NO.		PART NO.	DESCRIPTION			REMARK
			RESISTOR			
R1750		1-247-870-11	CARBON	43K	5%	1/4W
R1763		1-260-099-11	CARBON	1K	5%	1/2W
R1764		1-247-807-31	CARBON	100	5%	1/4W
R1773		1-260-099-11	CARBON	1K	5%	1/2W
R1774		1-247-807-31	CARBON	100	5%	1/4W
R1783		1-260-099-11	CARBON	1K	5%	1/2W
R1784		1-247-807-31	CARBON	100	5%	1/4W
R1788		1-216-349-00	METAL OXIDE	1	5%	1W F
R1789		1-249-437-11	CARBON	47K	5%	1/4W
R1790		1-216-378-11	METAL OXIDE	5.6	5%	2W F
		(KV-32S65 only)				
R1790		1-216-369-00	METAL OXIDE	1	5%	2W F
		(KV-35S65 only)				
R1792		1-247-815-91	CARBON	220	5%	1/4W
R1793		1-247-866-11	CARBON	30K	5%	1/4W
R1794		1-260-132-11	CARBON	560K	5%	1/2W
		(KV-35S65 only)				
R1795		1-260-087-11	CARBON	100	5%	1/2W
R1796		1-216-378-11	METAL OXIDE	5.6	5%	2W F
		(KV-32S65 only)				
R1796		1-216-369-00	METAL OXIDE	1	5%	2W F
		(KV-35S65 only)				
R1797		1-260-123-11	CARBON	100K	5%	1/2W

G

*** A-1316-389-A G BOARD, COMPLETE (KV-32S65 only)**
*** A-1316-399-A G BOARD, COMPLETE (KV-35S65 only)**

1-533-223-11 HOLDER, FUSE
4-382-854-11 SCREW (M3X10), P, SW (+)

CAPACITOR

C601		1-136-346-21	FILM	0.22MF	20%	125V
		(KV-35S65 only)				
C602		1-126-964-11	ELECT	10MF	20%	50V
C603	⚠	1-113-903-11	CERAMIC CHIP	0.001MF	20%	250V
C604	⚠	1-136-346-21	FILM	0.22MF	20%	125V
C605	⚠	1-136-346-21	FILM	0.22MF	20%	125V
C606	⚠	1-117-894-11	ELECT	560MF	20%	250V
C607	⚠	1-117-894-11	ELECT	560MF	20%	250V
C608		1-165-127-11	CERAMIC CHIP	470PF	10%	500V
C609		1-136-175-00	FILM	0.68MF	5%	50V
C610		1-136-175-00	FILM	0.68MF	5%	50V
C611		1-136-169-00	FILM	0.22MF	5%	50V
C612		1-136-169-00	FILM	0.22MF	5%	50V
C613		1-164-646-11	CERAMIC CHIP	2200PF	10%	500V
C615		1-129-722-00	FILM	0.047MF	5%	630V
C616	⚠	1-113-903-11	CERAMIC CHIP	0.001MF	20%	250V
C624		1-126-961-11	ELECT	2.2MF	20%	50V
C628	⚠	1-113-924-11	CERAMIC CHIP	0.0047MF	20%	250V
C629	⚠	1-107-680-91	ELECT	22MF	20%	450V
C630		1-130-471-00	MYLAR	0.001MF	5%	50V
C631		1-137-605-11	FILM	0.01MF	10%	250V
C633		1-130-471-00	MYLAR	0.001MF	5%	50V
C634		1-130-467-00	MYLAR	470PF	5%	50V
C635		1-130-471-00	MYLAR	0.001MF	5%	50V
C636		1-126-965-11	ELECT	22MF	20%	50V
C637		1-126-940-11	ELECT	330MF	20%	25V
C640	⚠	1-113-924-11	CERAMIC CHIP	0.0047MF	20%	250V
C641		1-128-550-11	ELECT	2200MF	20%	50V
C643		1-107-641-11	ELECT	220MF	20%	160V
C647		1-104-665-11	ELECT	100MF	20%	25V
C650		1-104-664-11	ELECT	47MF	20%	25V
C651		1-137-366-11	FILM	0.0022MF	5%	50V
C652		1-106-351-00	MYLAR	0.0022MF	20%	200V
C653		1-107-636-11	ELECT	10MF	20%	160V
C654		1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C655		1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C656		1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C657		1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C660		1-126-767-11	ELECT	1000MF	20%	16V
C690		1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C691		1-164-645-11	CERAMIC CHIP	1000PF	10%	500V

CONNECTOR

CN601	*	1-573-963-11	PIN, CONNECTOR (PC BOARD)	3P (KV-35S65 only)
CN602	*	1-580-844-11	PIN, CONNECTOR (POWER)	
CN604	*	1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P (KV-32S65 only)
CN603	*	1-573-963-11	PIN CONNECTOR (PC BOARD)	3P (KV-35S65 only)
CN641	*	1-564-515-11	PLUG, CONNECTOR	12P
CN643	*	1-508-784-00	PIN, CONNECTOR (5MM PITCH)	1P

DIODE

D600	⚠	8-719-991-33	DIODE 1SS133T-77
D601		8-719-991-33	DIODE 1SS133T-77
D602	⚠	8-719-510-53	DIODE D4SB60L
D603		8-719-052-90	DIODE D1NL40-TA2
D604		8-719-052-90	DIODE D1NL40-TA2
D612		8-719-991-33	DIODE 1SS133T-77
D613		8-719-991-33	DIODE 1SS133T-77
D614		8-719-991-33	DIODE 1SS133T-77
D621	⚠	8-719-911-55	DIODE U05G
D622	⚠	8-719-911-55	DIODE U05G
D623		8-719-055-18	DIODE ERA22-08TP3
D624		8-719-991-33	DIODE 1SS133T-77
D625		8-719-991-33	DIODE 1SS133T-77
D626		8-719-109-93	DIODE RD6.2ESB2

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COMPLETE PARTS LIST G

REF.NO.		PART NO.	DESCRIPTION				REMARK
D627		8-719-510-48	DIODE D1N20R				
D628		8-719-063-70	DIODE D1NL20U				
D641		8-719-052-92	DIODE D10SBS4F				
D642	⚠	8-719-510-12	DIODE D10SC4M				
D643		8-719-028-45	DIODE D2L20U				
D644		8-719-028-45	DIODE D2L20U				
D645		8-719-028-45	DIODE D2L20U				
D646		8-719-028-45	DIODE D2L20U				
D647		8-719-063-70	DIODE D1NL20U				
D648		8-719-057-52	DIODE EZ0150AV1				
D649		8-719-510-02	DIODE D1NS4				
D650		8-719-510-02	DIODE D1NS4				
		FUSE					
F601	⚠	1-576-193-11	FUSE	6.3A/125V			
		FERRITE BEAD					
FB601		1-410-396-41	FERRITE	0.45UH			
FB602		1-410-396-41	FERRITE	0.45UH			
FB603		1-410-396-41	FERRITE	0.45UH			
FB604		1-410-396-41	FERRITE	0.45UH			
FB641		1-410-397-21	FERRITE	1.1UH			
FB642		1-410-397-21	FERRITE	1.1UH			
FB645		1-410-397-21	FERRITE	1.1UH			
FB647		1-410-397-21	FERRITE	1.1UH			
		IC					
IC601	⚠	8-729-041-12	TRANSISTOR MX0841AB-F				
IC622		8-759-450-47	IC BA05T				
IC641		8-759-198-03	IC PQ09RF21				
IC643		8-749-012-13	IC DM-58				
		COIL					
L642		1-412-529-11	INDUCTOR	22UH			
		TRANSISTOR					
Q621	⚠	8-729-044-30	TRANSISTOR 2SK2845-LB102				
Q622		8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q644		8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q645		8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q646		8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q647		8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q648		8-729-922-39	TRANSISTOR 2SD2144S-V				
		RESISTOR					
R603	⚠	1-219-776-11	CARBON	2.2M	10%	1/2W	
R607	⚠	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R608	⚠	1-216-373-11	METAL OXIDE	2.2	5%	2W	F
R611	⚠	1-216-373-11	METAL OXIDE	2.2	5%	2W	F
R612		1-215-903-11	METAL OXIDE	68K	5%	2W	F
R613		1-215-903-11	METAL OXIDE	68K	5%	2W	F
R614		1-215-903-11	METAL OXIDE	68K	5%	2W	F
R615		1-215-903-11	METAL OXIDE	68K	5%	2W	F
R618		1-249-425-11	CARBON	4.7K	5%	1/4W	
R619		1-249-425-11	CARBON	4.7K	5%	1/4W	
R620		1-249-425-11	CARBON	4.7K	5%	1/4W	
R621		1-249-429-11	CARBON	10K	5%	1/4W	
R622		1-247-863-91	CARBON	22K	5%	1/4W	
R623	⚠	1-205-943-11	CEMENTED	1	5%	20W	
R624		1-260-131-11	CARBON	470K	5%	1/2W	
R625		1-260-131-11	CARBON	470K	5%	1/2W	
R626		1-249-425-11	CARBON	4.7K	5%	1/4W	
R627	⚠	1-220-797-11	CEMENTED	0.47	5%	10W	
R628		1-240-205-91	CARBON	22M	5%	1/2W	
R629	⚠	1-220-797-11	CEMENTED	0.47	5%	10W	
R632		1-249-421-11	CARBON	2.2K	5%	1/4W	
R633		1-249-429-11	CARBON	10K	5%	1/4W	
R634		1-249-437-11	CARBON	47K	5%	1/4W	
R635		1-247-791-91	CARBON	22	5%	1/4W	
R636		1-249-415-11	CARBON	680	5%	1/4W	
R637		1-260-302-51	CARBON	6.8	5%	1/2W	
R638		1-249-413-11	CARBON	470	5%	1/4W	
R639	⚠	1-249-389-11	CARBON	4.7	5%	1/4W	F
R640		1-215-485-00	METAL	470K	1%	1/4W	
R641		1-247-843-11	CARBON	3.3K	5%	1/4W	
R642		1-247-843-11	CARBON	3.3K	5%	1/4W	
R643		1-249-387-11	CARBON	3.3	5%	1/4W	F
R648		1-247-887-00	CARBON	220K	5%	1/4W	
R649		1-249-425-11	CARBON	4.7K	5%	1/4W	F
R659		1-249-429-11	CARBON	10K	5%	1/4W	
R660	⚠	1-249-393-11	CARBON	10	5%	1/4W	F
R661		1-249-419-11	CARBON	1.5K	5%	1/4W	F
R666	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R667	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R668	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R670	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R671	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R672	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
		RELAY					
RY600	⚠	1-755-266-11	RELAY, AC POWER				
RY601	⚠	1-755-146-11	RELAY, AC POWER				
		TRANSFORMER					
T601	⚠	1-426-717-11	TRANSFORMER, LINE FILTER	(LFT)			
T602	⚠	1-426-717-11	TRANSFORMER, LINE FILTER	(LFT)			
T603	⚠	1-429-992-21	TRANSFORMER, CONVERTER	(PRT)			
T605	⚠	1-429-415-11	TRANSFORMER, CONVERTER	(PIT)			

G HS HV COMPLETE PARTS LIST

Note:
The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:
Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
T621	⚠ 1-431-852-11	TRANSFORMER, CONVERTER	(SRT)
		THERMISTOR	
THP601	⚠ 1-809-539-11	THERMISTOR, POSITIVE	
		VARISTOR	
VDR601	⚠ 1-801-074-41	VARISTOR ERZV10D271	
VDR602	1-801-074-41	VARISTOR ERZV10D271	

HS

*** A-1372-519-A HS BOARD, COMPLETE (KV-32S65 only)**
*** A-1372-507-A HS BOARD, COMPLETE (KV-35S65 only)**

		CAPACITOR			
C2168	1-104-665-11	ELECT	100MF	20%	25V
	KV-32S65 only)				
C2169	1-126-959-11	ELECT	0.47MF	20%	50V
	KV-32S65 only)				
		CONNECTOR			
CN2101	1-564-524-11	PLUG, CONNECTOR	9P		
		DIODE			
D2106	1-810-039-11	LED UNIT (KV-32S65 only)			
		IC			
IC2103	8-742-014-11	HYB IC SBX1981-51(KV-32S65 only)			
		RESISTOR			
R2109	1-216-033-00	RES, CHIP	220	5%	1/10W
	(KV-32S65 only)				
R2110	1-216-033-00	RES, CHIP	220	5%	1/10W
	(KV-32S65 only)				
R2159	1-216-047-91	RES, CHIP	820	5%	1/10W
	(KV-32S65 only)				
R2160	1-216-049-91	RES, CHIP	1K	5%	1/10W
	(KV-32S65 only)				
R2161	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
	(KV-32S65 only)				
R2162	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
	(KV-32S65 only)				
R2163	1-216-073-00	RES, CHIP	10K	5%	1/10W
	(KV-32S65 only)				
		SWITCH			
S2101	1-692-431-21	SWITCH, TACTILE (KV-32S65 only)			
S2102	1-692-431-21	SWITCH, TACTILE (KV-32S65 only)			
S2103	1-692-431-21	SWITCH, TACTILE (KV-32S65 only)			
S2104	1-692-431-21	SWITCH, TACTILE (KV-32S65 only)			
S2105	1-692-431-21	SWITCH, TACTILE (KV-32S65 only)			
S2106	1-692-431-21	SWITCH, TACTILE (KV-32S65 only)			
S2107	1-692-431-21	SWITCH, TACTILE (KV-32S65 only)			

HV

*** A-1372-523-A HV BOARD, COMPLETE (KV-35S65 only)**

		CAPACITOR			
C2068	1-104-665-11	ELECT	100MF	20%	25V
C2070	1-165-319-11	CERAMIC CHIP	0.1MF		50V
		DIODE			
D2006	1-810-039-11	LED UNIT			
		IC			
IC2003	8-742-014-11	HYB IC SBX1981-51			
		RESISTOR			
R2009	1-216-033-00	RES, CHIP	220	5%	1/10W
R2010	1-216-033-00	RES, CHIP	220	5%	1/10W
R2059	1-216-047-91	RES, CHIP	820	5%	1/10W
R2060	1-216-049-91	RES, CHIP	1K	5%	1/10W
R2061	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R2062	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R2063	1-216-073-00	RES, CHIP	10K	5%	1/10W
		SWITCH			
S2001	1-692-431-21	SWITCH, TACTILE			
S2002	1-692-431-21	SWITCH, TACTILE			
S2003	1-692-431-21	SWITCH, TACTILE			
S2004	1-692-431-21	SWITCH, TACTILE			
S2005	1-692-431-21	SWITCH, TACTILE			
S2006	1-692-431-21	SWITCH, TACTILE			
S2007	1-692-431-21	SWITCH, TACTILE			

REF.NO.	PART NO.	DESCRIPTION			REMARK
P					
*	**A-1195-138-A P BOARD, COMPLETE**				
	CAPACITOR				
C3319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3320	1-126-960-11	ELECT	1MF	20%	50V
C3321	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3322	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3323	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3324	1-104-664-11	ELECT	47MF	20%	16V
C3328	1-104-664-11	ELECT	47MF	20%	16V
C3329	1-104-664-11	ELECT	47MF	20%	16V
C3330	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3331	1-104-664-11	ELECT	47MF	20%	16V
C3332	1-104-664-11	ELECT	47MF	20%	25V
C3334	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3335	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3336	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3337	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3340	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3346	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3347	1-126-960-11	ELECT	1MF	20%	50V
C3348	1-104-664-11	ELECT	47MF	20%	16V
C3349	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C3350	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3352	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3353	1-164-346-11	CERAMIC CHIP	1MF		16V
C3354	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3355	1-126-925-11	ELECT	470MF	20%	10V
C3356	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3357	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3358	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3359	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3360	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3361	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3362	1-126-925-11	ELECT	470MF	20%	10V
C3363	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3364	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3365	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3366	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3367	1-126-963-11	ELECT	4.7MF	20%	50V
C3368	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3369	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3370	1-164-346-11	CERAMIC CHIP	1MF		16V
C3371	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3372	1-164-005-11	CERAMIC CHIP	0.47MF		25V
	CONNECTOR				
CN3301*	1-764-816-11	CONNECTOR, BOARD TO BOARD			20P
	IC				
IC3302	8-759-231-53	IC TA7805S			
IC3303	8-759-533-89	IC SDA9288XE-GEG-B121			
IC3304	8-752-086-80	IC CXA2019AQ-T4			
	COIL				
L3301	1-408-607-31	INDUCTOR	22UH		
L3302	1-410-473-11	INDUCTOR	18UH		
L3303	1-408-612-31	INDUCTOR	56UH		
	TRANSISTOR				
Q3301	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3302	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3306	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3310	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3312	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3314	8-729-216-22	TRANSISTOR 2SA1162-G			
	RESISTOR				
R3301	1-216-295-91	SHORT			
R3302	1-216-295-91	SHORT			
R3305	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3312	1-216-037-00	RES, CHIP	330	5%	1/10W
R3313	1-216-295-91	SHORT			
R3314	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3323	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R3329	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R3330	1-216-295-91	SHORT			
R3337	1-216-033-00	RES, CHIP	220	5%	1/10W
R3338	1-216-033-00	RES, CHIP	220	5%	1/10W
R3339	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3340	1-216-041-00	RES, CHIP	470	5%	1/10W
R3341	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3342	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3343	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3346	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3351	1-216-295-91	SHORT			
R3352	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3358	1-216-047-91	RES, CHIP	820	5%	1/10W
R3359	1-216-047-91	RES, CHIP	820	5%	1/10W
R3360	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R3361	1-216-053-00	RES, CHIP	1.5K	5%	1/10W

P UV COMPLETE PARTS LIST

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3362	1-216-041-00	RES, CHIP	470	5%	1/10W
R3363	1-216-041-00	RES, CHIP	470	5%	1/10W
R3364	1-216-041-00	RES, CHIP	470	5%	1/10W
R3375	1-216-041-00	RES, CHIP	470	5%	1/10W
R3376	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R3377	1-216-073-00	RES, CHIP	10K	5%	1/10W
R3378	1-208-786-11	RES, CHIP	1.5K	0.50%	1/10W
R3379	1-216-077-00	RES, CHIP	15K	5%	1/10W
R3380	1-216-025-91	RES, CHIP	100	5%	1/10W
R3381	1-216-025-91	RES, CHIP	100	5%	1/10W
R3382	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3383	1-216-025-91	RES, CHIP	100	5%	1/10W
R3384	1-216-033-00	RES, CHIP	220	5%	1/10W
R3385	1-216-109-00	RES, CHIP	330K	5%	1/10W
R3386	1-216-295-91	SHORT			
R3387	1-216-295-91	SHORT			
R3388	1-216-295-91	SHORT			
R3393	1-216-025-91	RES, CHIP	100	5%	1/10W
R3394	1-216-025-91	RES, CHIP	100	5%	1/10W
R3395	1-216-061-00	RES, CHIP	3.3K	5%	1/10W

CRYSTAL

X3302	1-760-095-21	VIBRATOR, CRYSTAL	
X3303	1-577-611-11	OSCILLATOR, CERAMIC CHIP	
X3304	1-567-505-11	OSCILLATOR, CRYSTAL	

UV

*** A-1394-910-A UV BOARD, COMPLETE**

CAPACITOR

C150	1-126-956-91	ELECT	0.1MF	20%	50V
C153	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C154	1-126-963-11	ELECT	4.7MF	20%	50V
C155	1-126-963-11	ELECT	4.7MF	20%	50V
C156	1-126-963-11	ELECT	4.7MF	20%	50V
C158	1-126-963-11	ELECT	4.7MF	20%	50V
C160	1-126-964-11	ELECT	10MF	20%	50V
C161	1-126-956-91	ELECT	0.1MF	20%	50V
C162	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C163	1-104-664-11	ELECT	47MF	20%	25V
C164	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C165	1-126-964-11	ELECT	10MF	20%	50V
C168	1-126-963-11	ELECT	4.7MF	20%	50V
C171	1-126-941-11	ELECT	470MF	20%	25V
C172	1-126-959-11	ELECT	0.47MF	20%	50V
C173	1-126-959-11	ELECT	0.47MF	20%	50V
C176	1-126-964-11	ELECT	10MF	20%	50V
C177	1-126-964-11	ELECT	10MF	20%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C231	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C232	1-136-161-00	FILM	0.047MF	5%	50V
C233	1-136-161-00	FILM	0.047MF	5%	50V
C234	1-126-960-11	ELECT	1MF	20%	50V
C235	1-126-960-11	ELECT	1MF	20%	50V
C236	1-136-161-00	FILM	0.047MF	5%	50V
C237	1-126-960-11	ELECT	1MF	20%	50V
C238	1-126-960-11	ELECT	1MF	20%	50V
C261	1-136-161-00	FILM	0.047MF	5%	50V
C262	1-104-664-11	ELECT	47MF	20%	25V
C263	1-136-161-00	FILM	0.047MF	5%	50V
C264	1-126-941-11	ELECT	470MF	20%	25V
C266	1-126-960-11	ELECT	1MF	20%	50V
C267	1-126-960-11	ELECT	1MF	20%	50V
C270	1-126-960-11	ELECT	1MF	20%	50V
C271	1-126-960-11	ELECT	1MF	20%	50V
C276	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

CONNECTOR

CN261	* 1-691-632-21	CONNECTOR, BOARD TO BOARD		15P
CN262	1-573-301-21	CONNECTOR, BOARD TO BOARD		20P
CN263	* 1-564-506-11	PLUG, CONNECTOR		3P
CN264	1-573-979-21	CONNECTOR, BOARD TO BOARD		11P

DIODE

D100	8-719-981-99	DIODE MTZJ-3.3
D231	8-719-110-17	DIODE RD10ESB2
D232	8-719-110-17	DIODE RD10ESB2
D233	8-719-110-17	DIODE RD10ESB2
D234	8-719-110-17	DIODE RD10ESB2
D235	8-719-110-17	DIODE RD10ESB2
D236	8-719-110-17	DIODE RD10ESB2
D240	8-719-110-17	DIODE RD10ESB2
D241	8-719-110-17	DIODE RD10ESB2
D242	8-719-110-17	DIODE RD10ESB2
D243	8-719-110-17	DIODE RD10ESB2
D244	8-719-110-17	DIODE RD10ESB2
D264	8-719-110-17	DIODE RD10ESB2
D265	8-719-110-17	DIODE RD10ESB2
D902	8-719-110-17	DIODE RD10ESB2

IC

IC100	8-752-072-39	IC CXA2021S
IC101	8-759-100-96	IC UPC4558G2
IC261	8-759-534-81	IC MM1313AD

JACK

J231	1-750-515-11	TERMINAL BLOCK, S	3P
J232	1-750-517-11	JACK BLOCK, PIN	3P

REF.NO.	PART NO.	DESCRIPTION			REMARK
J233	1-750-516-11	JACK BLOCK, PIN			2P
J902	1-764-143-11	JACK			3P
J903	1-764-143-11	JACK			3P
J904	1-764-143-11	JACK			3P
	CHIP CONDUCTOR				
JR101	1-216-295-91	SHORT			
JR109	1-216-295-91	SHORT			
JR147	1-216-295-91	SHORT			
JR148	1-216-295-91	SHORT			
JR201	1-216-295-91	SHORT			
JR204	1-216-295-91	SHORT			
JR205	1-216-295-91	SHORT			
JR269	1-216-295-91	SHORT			
JR270	1-216-295-91	SHORT			
JR272	1-216-295-91	SHORT			
JR273	1-216-295-91	SHORT			
JR274	1-216-295-91	SHORT			
JR276	1-216-295-91	SHORT			
JR901	1-216-295-91	SHORT			
	TRANSISTOR				
Q100	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q101	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q243	8-729-216-22	TRANSISTOR 2SA1162-G			
Q261	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q262	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q263	8-729-216-22	TRANSISTOR 2SA1162-G			
Q265	8-729-216-22	TRANSISTOR 2SA1162-G			
	RESISTOR				
R100	1-216-033-00	RES, CHIP	220	5%	1/10W
R101	1-216-033-00	RES, CHIP	220	5%	1/10W
R102	1-216-073-00	RES, CHIP	10K	5%	1/10W
R103	1-216-093-00	RES, CHIP	68K	5%	1/10W
R104	1-216-089-91	RES, CHIP	47K	5%	1/10W
R105	1-216-089-91	RES, CHIP	47K	5%	1/10W
R106	1-216-049-91	RES, CHIP	1K	5%	1/10W
R107	1-216-049-91	RES, CHIP	1K	5%	1/10W
R108	1-216-073-00	RES, CHIP	10K	5%	1/10W
R109	1-216-089-91	RES, CHIP	47K	5%	1/10W
R110	1-216-089-91	RES, CHIP	47K	5%	1/10W
R111	1-216-025-91	RES, CHIP	100	5%	1/10W
R112	1-216-121-91	RES, CHIP	1M	5%	1/10W
R133	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R134	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R135	1-216-097-91	RES, CHIP	100K	5%	1/10W
R136	1-216-093-00	RES, CHIP	68K	5%	1/10W
R137	1-216-025-91	RES, CHIP	100	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R212	1-249-440-11	CARBON	82K	5%	1/4W
R228	1-216-033-00	RES, CHIP	220	5%	1/10W
R229	1-216-025-91	RES, CHIP	100	5%	1/10W
R230	1-216-033-00	RES, CHIP	220	5%	1/10W
R231	1-216-022-00	RES, CHIP	75	5%	1/10W
R232	1-216-022-00	RES, CHIP	75	5%	1/10W
R233	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R234	1-216-022-00	RES, CHIP	75	5%	1/10W
R235	1-216-113-00	RES, CHIP	470K	5%	1/10W
R236	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R237	1-216-113-00	RES, CHIP	470K	5%	1/10W
R238	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R239	1-216-022-00	RES, CHIP	75	5%	1/10W
R240	1-216-113-00	RES, CHIP	470K	5%	1/10W
R241	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R242	1-216-113-00	RES, CHIP	470K	5%	1/10W
R243	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R244	1-216-113-00	RES, CHIP	470K	5%	1/10W
R245	1-249-417-11	CARBON	1K	5%	1/4W
R246	1-216-113-00	RES, CHIP	470K	5%	1/10W
R247	1-249-417-11	CARBON	1K	5%	1/4W
R261	1-216-009-00	RES, CHIP	22	5%	1/10W
R264	1-247-815-91	CARBON	220	5%	1/4W
R265	1-247-815-91	CARBON	220	5%	1/4W
R266	1-216-043-91	RES, CHIP	560	5%	1/10W
R267	1-249-415-11	CARBON	680	5%	1/4W
R268	1-216-025-91	RES, CHIP	100	5%	1/10W
R269	1-216-025-91	RES, CHIP	100	5%	1/10W
R270	1-216-041-00	RES, CHIP	470	5%	1/10W
R271	1-249-415-11	CARBON	680	5%	1/4W
R272	1-249-417-11	CARBON	1K	5%	1/4W
R275	1-249-425-11	CARBON	4.7K	5%	1/4W
R276	1-249-425-11	CARBON	4.7K	5%	1/4W
R277	1-216-049-91	RES, CHIP	1K	5%	1/10W
R279	1-216-025-91	RES, CHIP	100	5%	1/10W
R280	1-216-033-00	RES, CHIP	220	5%	1/10W
R281	1-216-033-00	RES, CHIP	220	5%	1/10W
R282	1-216-025-91	RES, CHIP	100	5%	1/10W
R283	1-216-025-91	RES, CHIP	100	5%	1/10W
R284	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R285	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R286	1-216-049-91	RES, CHIP	1K	5%	1/10W
R291	1-216-025-91	RES, CHIP	100	5%	1/10W
R293	1-216-025-91	RES, CHIP	100	5%	1/10W
R294	1-216-049-91	RES, CHIP	1K	5%	1/10W
R902	1-249-405-11	CARBON	100	5%	1/4W F
R919	1-216-295-91	SHORT			
R920	1-249-405-11	CARBON	100	5%	1/4W F
R921	1-249-405-11	CARBON	100	5%	1/4W F

UV WA COMPLETE PARTS LIST

REF.NO.	PART NO.	DESCRIPTION			REMARK
R922	1-216-049-91	RES, CHIP	1K	5%	1/10W
R923	1-216-049-91	RES, CHIP	1K	5%	1/10W
R924	1-216-049-91	RES, CHIP	1K	5%	1/10W

WA

*** A-1372-462-A WA BOARD, MOUNTED (KV-35S65 only)**

4-382-854-11 SCREW (M3X10), P, SW (+)

CAPACITOR

C941	1-126-935-11	ELECT	470MF	20%	16V
C944	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C945	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C946	1-126-933-11	ELECT	100MF	20%	16V
C949	1-161-830-00	CERAMIC	0.0047MF		500V
C950	1-126-933-11	ELECT	100MF	20%	16V
C951	1-107-638-11	ELECT	33MF	20%	160V
C952	1-104-999-11	MYLAR	0.1MF	10%	200V
C953	1-106-383-00	MYLAR	0.047MF	10%	200V
C954	1-137-364-11	FILM	0.001MF	5%	50V
C955	1-107-667-11	ELECT	2.2MF	20%	160V
C956	1-137-364-11	FILM	0.001MF	5%	50V
C957	1-106-383-00	MYLAR	0.047MF	10%	200V
C958	1-126-933-11	ELECT	100MF	20%	16V
C961	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C962	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C965	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C966	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C967	1-129-718-00	FILM	0.022MF	5%	630V
C968	1-137-579-11	FILM	0.068MF	5%	100V
C969	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C981	1-126-941-11	ELECT	470MF	20%	25V
C983	1-137-366-11	FILM	0.0022MF	5%	50V

CONNECTOR

CN941	1-564-511-11	PLUG, CONNECTOR	8P
CN961	* 1-770-723-11	CONNECTOR, BOARD TO BOARD	8P
CN981	* 1-564-506-11	PLUG, CONNECTOR	3P

DIODE

D941	8-719-991-33	DIODE 1SS133T-77
D946	8-719-110-88	DIODE RD39ESB2
D947	8-719-110-88	DIODE RD39ESB2
D961	8-719-109-89	DIODE RD5.6ESB2
D962	8-719-991-33	DIODE 1SS133T-77
D964	8-719-302-43	DIODE EL1Z

REF.NO.	PART NO.	DESCRIPTION			REMARK

IC

IC961	8-759-700-07	IC NJM2903M
IC981	8-759-603-37	IC M5216P

COIL

L942	1-215-863-11	METAL OXIDE	100	5%	1W	F
L962	1-406-989-21	INDUCTOR	0UH			
L963	1-406-675-11	INDUCTOR	0UH			

TRANSISTOR

Q943	8-729-422-27	TRANSISTOR	2SD601A-Q
Q944	8-729-422-27	TRANSISTOR	2SD601A-Q
Q945	8-729-422-27	TRANSISTOR	2SD601A-Q
Q946	8-729-017-05	TRANSISTOR	2SA1837
Q947	8-729-017-06	TRANSISTOR	2SC4793
Q962	8-729-931-45	TRANSISTOR	IRF614
Q963	8-729-216-22	TRANSISTOR	2SA1162-G
Q965	8-729-422-27	TRANSISTOR	2SD601A-Q
Q966	8-729-216-22	TRANSISTOR	2SA1162-G
Q981	8-729-422-27	TRANSISTOR	2SD601A-Q

RESISTOR

R943	1-216-025-91	RES, CHIP	100	5%	1/10W
R948	1-216-049-91	RES, CHIP	1K	5%	1/10W
R949	1-216-049-91	RES, CHIP	1K	5%	1/10W
R950	1-216-049-91	RES, CHIP	1K	5%	1/10W
R951	1-216-049-91	RES, CHIP	1K	5%	1/10W
R952	1-216-037-00	RES, CHIP	330	5%	1/10W
R953	1-216-021-00	RES, CHIP	68	5%	1/10W
R954	1-216-033-00	RES, CHIP	220	5%	1/10W
R955	1-216-047-91	RES, CHIP	820	5%	1/10W
R956	1-216-295-91	SHORT			
R957	1-216-073-00	RES, CHIP	10K	5%	1/10W
R958	1-216-295-91	SHORT			
R959	1-216-021-00	RES, CHIP	68	5%	1/10W
R960	1-216-689-11	RES, CHIP	39K	5%	1/10W
R961	1-216-073-00	RES, CHIP	10K	5%	1/10W
R962	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R963	1-216-097-91	RES, CHIP	100K	5%	1/10W
R964	1-216-073-00	RES, CHIP	10K	5%	1/10W
R965	1-216-073-00	RES, CHIP	10K	5%	1/10W
R966	1-216-097-91	RES, CHIP	100K	5%	1/10W
R967	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R968	1-216-083-00	RES, CHIP	27K	5%	1/10W
R969	1-216-295-91	SHORT			
R970	1-216-033-00	RES, CHIP	220	5%	1/10W
R971	1-247-899-11	CARBON	680K	5%	1/4W

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

COMPLETE PARTS LIST WA WB

REF.NO.		PART NO.	DESCRIPTION			REMARK
R972		1-216-073-00	RES, CHIP	10K	5%	1/10W
R973		1-216-121-91	RES, CHIP	1M	5%	1/10W
R974		1-216-073-00	RES, CHIP	10K	5%	1/10W
R975	⚠	1-216-446-00	METAL OXIDE	18	5%	2W F
R976	⚠	1-216-423-11	METAL OXIDE	27	5%	1W F
R979		1-216-017-91	RES, CHIP	47	5%	1/10W
R981		1-216-081-00	RES, CHIP	22K	5%	1/10W
R982		1-216-081-00	RES, CHIP	22K	5%	1/10W
R983		1-216-081-00	RES, CHIP	22K	5%	1/10W
R984		1-216-081-00	RES, CHIP	22K	5%	1/10W
R987		1-216-049-91	RES, CHIP	1K	5%	1/10W
R988		1-216-295-91	SHORT			
R989		1-216-304-11	RES, CHIP	3.3	5%	1/10W
R992		1-216-073-00	RES, CHIP	10K	5%	1/10W
R1941		1-260-311-51	CARBON	39	5%	1/2W
R1942		1-249-384-11	CARBON	1.8	5%	1/4W F
R1943		1-249-414-11	CARBON	560	5%	1/4W F
R1944		1-249-432-11	CARBON	18K	5%	1/4W
R1945		1-216-476-11	METAL OXIDE	180	5%	3W F
R1946		1-249-417-11	CARBON	1K	5%	1/4W F
R1947		1-249-432-11	CARBON	18K	5%	1/4W
R1948		1-249-414-11	CARBON	560	5%	1/4W
R1949		1-249-384-11	CARBON	1.8	5%	1/4W F
R1950		1-249-400-11	CARBON	39	5%	1/4W F

WB

*** A-1372-508-A WB BOARD, MOUNTED (KV-32S65 only)**

4-382-854-11 SCREW (M3X10), P, SW (+)

CAPACITOR

C2941		1-126-935-11	ELECT	470MF	20%	16V
C2944		1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C2946		1-126-933-11	ELECT	100MF	20%	16V
C2949		1-161-830-00	CERAMIC CHIP	0.0047MF		500V
C2950		1-126-933-11	ELECT	100MF	20%	16V
C2951		1-107-638-11	ELECT	33MF	20%	160V
C2952		1-104-999-11	MYLAR	0.1MF	10%	200V
C2953		1-106-383-00	MYLAR	0.047MF	10%	200V
C2954		1-137-364-11	FILM	0.001MF	5%	50V
C2955		1-107-667-11	ELECT	2.2MF	20%	160V
C2956		1-137-364-11	FILM	0.001MF	5%	50V
C2957		1-106-383-00	MYLAR	0.047MF	10%	200V
C2958		1-126-933-11	ELECT	100MF	20%	16V
C2975		1-163-001-11	CERAMIC CHIP	220PF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
	CONNECTOR				
CN2941*	1-564-508-11	PLUG, CONNECTOR	5P		
	DIODE				
D2941	8-719-991-33	DIODE 1SS133T-77			
D2946	8-719-110-88	DIODE RD39ESB2			
D2947	8-719-110-88	DIODE RD39ESB2			
	COIL				
L2942	1-215-863-11	METAL OXIDE	100	5%	1W F
	TRANSISTOR				
Q2943	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2944	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2945	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2946	8-729-017-05	TRANSISTOR 2SA1837			
Q2947	8-729-017-06	TRANSISTOR 2SC4793			
Q2965	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q2966	8-729-216-22	TRANSISTOR 2SA1162-G			
	RESISTOR				
R2943	1-216-025-91	RES, CHIP	100	5%	1/10W
R2948	1-216-049-91	RES, CHIP	1K	5%	1/10W
R2949	1-216-049-91	RES, CHIP	1K	5%	1/10W
R2950	1-216-049-91	RES, CHIP	1K	5%	1/10W
R2951	1-216-049-91	RES, CHIP	1K	5%	1/10W
R2952	1-216-037-00	RES, CHIP	330	5%	1/10W
R2953	1-216-021-00	RES, CHIP	68	5%	1/10W
R2954	1-216-033-00	RES, CHIP	220	5%	1/10W
R2955	1-216-047-91	RES, CHIP	820	5%	1/10W
R2956	1-216-295-91	SHORT			
R2957	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2958	1-216-295-91	SHORT			
R2959	1-216-021-00	RES, CHIP	68	5%	1/10W
R2979	1-216-017-91	RES, CHIP	47	5%	1/10W
R4941	1-260-311-51	CARBON	39	5%	1/2W
R4942	1-249-384-11	CARBON	1.8	5%	1/4W F
R4943	1-249-414-11	CARBON	560	5%	1/4W F
R4944	1-249-432-11	CARBON	18K	5%	1/4W
R4945	1-216-476-11	METAL OXIDE	180	5%	3W F
R4946	1-249-417-11	CARBON	1K	5%	1/4W F
R4947	1-249-432-11	CARBON	18K	5%	1/4W
R4948	1-249-414-11	CARBON	560	5%	1/4W
R4949	1-249-384-11	CARBON	1.8	5%	1/4W F
R4950	1-249-400-11	CARBON	39	5%	1/4W F

ACCESSORIES AND PACKING MATERIALS

REF.NO.	PART NO.	DESCRIPTION	REMARK

32S65

ACCESSORIES AND PACKING MATERIALS

4-041-259-01	BAG, PROTECTION	
4-063-179-01	CARTON, INDIVIDUAL	
4-063-180-01	CUSHION, UPPER ASSY	
4-063-181-01	CUSHION, LOWER ASSY	
3-862-568-21	MANUAL, INSTRUCTION	

REMOTE COMMANDER

1-475-802-11	REMOTE COMMANDER (RM-Y167)	
4-978-977-01	BATTERY COVER (FOR REMOTE)	

REF.NO.	PART NO.	DESCRIPTION	REMARK

35S65

ACCESSORIES AND PACKING MATERIALS

4-053-658-01	BAG, PROTECTION	
4-056-782-01	CARTON, INDIVIDUAL	
4-056-783-01	CUSHION, UPPER ASSY	
4-056-784-01	CUSHION, LOWER ASSY	
3-862-568-21	MANUAL, INSTRUCTION	

REMOTE COMMANDER

1-475-802-11	REMOTE COMMANDER (RM-Y167)	
4-978-977-01	BATTERY COVER (FOR REMOTE)	

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